HISTORY INFORMATION FOR THE FOLLOWING MANUAL:

SERVICE MANUAL

DX-1A CHASSIS

MODEL NAME	REMOTE COMMANDER	<u>DESTINATION</u>	CHASSIS NO.
KV-40XBR700	RM-Y184	US	SCC-S47G-A
KV-40XBR700	RM-Y184	CND	SCC-S48E-A
KV-40XBR700	H RM-Y184	HAWAII	SCC-S54D-A

ORIGINAL MANUAL ISSUE DATE: 8/2001

ALL REVISIONS AND UPDATES TO THE ORIGINAL MANUAL ARE APPENDED TO THE END OF THE PDF FILE.

REVISION DATE	REVISION TYPE	SUBJECT
8/2001	No revisions or updates	are applicable at this time.
10/2001	Supplement -1	Hawaii model added. New parts added to exploded view drawings.
11/2001	Supplement -2	Reference Cable Routing Added





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KV-40XBR700	RM-Y184	US	SCC-S47G-A
KV-40XBR700	RM-Y184	CND	SCC-S48E-A





RM-Y184

TRINITRON® COLOR TELEVISION



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SPECIFICATIONS

Power requirements	KV-40XBR700 120V, 60 Hz
Number of inputs/outputs	,
Video ¹⁾	4
S Video ²⁾	3
Audio 3)	6
Audio Out 4)	1
Y,P _B , P _R ⁵⁾	2
Monitor Out	1
Control-S (in/out)	YES
Speaker output(W)	7.5W x 2 15W Subwoofer
Speaker output(vv)	1000 GubWoolci
Power Consumption(W)	
In use(Max)	245W
In standby	2W
Dimensions(W/H/D)	
(mm)	1093 x 836 x 665 mm
(in)	43 ¹ / ₈ x 33 x 26 ¹ / _{/8} in
Mass	
(kg)	138 kg
(lbs)	304 lbs.

- 1) 1 Vp-p 75 ohms unbalanced, sync negative
- 2) Y: 1 Vp-p 75 ohms unbalanced, sync negativeC: 0.286 Vp-p (Burst signal), 75 ohms
- More than 408 mVrms at the maximum volume setting (variable)
 More than 408 mVrms (fix)
- 4) 500 mVrms (100% modulation), Impedance: 47 kilohms
- 5) Y: 1.0 Vp-p, 75 ohms, sync negative;
 PB: 0.7 Vp-p, 75 ohms
 PR: Vp-p, 75 ohms

Television system

American TV standard, NTSC

Channel coverage

VHF: 2-13/ UHF: 14-69/ CATV: 1-125

Picture tube

FD Trinitron® tube

Visible screen size

38-inch picture measured diagonally

Actual screen size

40-inch measured diagonally

Antenna

75 ohm external terminal for VHF/UHF

Supplied Accessories

Remote Commander RM-Y184 Two Size AA (R6) Batteries

Optional Accessories

Connecting cables: VMC-10/30HG, VMC-810S/820/830HGS, VMC-810S/820S,

RKG69HG, RKC-515HG

TV Stand: SV-40XBR7

Design and specifications are subject to change without notice.



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incorporated under license from SRS Labs, Inc. and are protected under United States Patent Nos. 4,748,669 and 4,841,572 with numerous additional issued and pending foreign patents. Purchase of this product does not convey the right to sell recordings made with the TruSurround technology.

() SRS (SOUND RETRIEVAL SYSTEM)

The SRS (SOUND RETRIEVAL SYSTEM) is manufactured by Sony Corporation under license from SRS Labs, Inc. It is covered by U.S. Patent No. 4,748,669. Other U.S. and foreign patents pending.

The word 'SRS' and the SRS symbol (are registered trademarks of SRS Labs, Inc. BBE and BBE symbol are trademarks of BBE Sound, Inc. and are licensed by BBE Sound, Inc. under U.S. Patent No. 4,638,258 and 4,482,866.

WARNINGS AND CAUTIONS

CAUTION

Short circuit the anode of the picture tube and the anode cap to the metal chassis, CRT shield, or carbon painted on the CRT, after removing the anode.

WARNING!!

An isolation transformer should be used during any service to avoid possible shock hazard, because of live chassis. The chassis of this receiver is directly connected to the AC power line.



SAFETY-RELATED COMPONENT WARNING!!

Components identified by shading and \triangle mark on the schematic diagrams, exploded views, and in the parts list are critical for safe operation. Replace these components with Sony parts whose part numbers appear as shown in this manual or in supplements published by Sony. Circuit adjustments that are critical for safe operation are identified in this manual. Follow these procedures whenever critical components are replaced or improper operation is suspected.

ATTENTION!!

Apres avoir deconnecte le cap de l'anode, court-circuiter l'anode du tube cathodique et celui de l'anode du cap au chassis metallique de l'appareil, ou la couche de carbone peinte sur le tube cathodique ou au blindage du tube cathodique.

Afin d'eviter tout risque d'electrocution provenant d'un chássis sous tension, un transformateur d'isolement doit etre utilisé lors de tout dépannage. Le chássis de ce récepteur est directement raccordé à l'alimentation du secteur.



ATTENTION AUX COMPOSANTS RELATIFS A LA SECURITE!!

Les composants identifies par une trame et par une marque 🛆 sur les schemas de principe, les vues explosees et les listes de pieces sont d'une importance critique pour la securite du fonctionnement. Ne les remplacer que par des composants Sony dont le numero de piece est indique dans le present manuel ou dans des supplements publies par Sony. Les reglages de circuit dont l'importance est critique pour la securite du fonctionnement sont identifies dans le present manuel. Suivre ces procedures lors de chaque remplacement de composants critiques, ou lorsqu'un mauvais fonctionnement suspecte.

SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety checks before releasing the set to the customer:

- Check the area of your repair for unsoldered or poorly soldered connections. Check the entire board surface for solder splashes and bridges.
- Check the interboard wiring to ensure that no wires are "pinched" or touching high-wattage resistors.
- Check that all control knobs, shields, covers, ground straps, and mounting hardware have been replaced. Be absolutely certain that you have replaced all the insulators.
- Look for unauthorized replacement parts, particularly transistors, that were installed during a previous repair. Point them out to the customer and recommend their replacement.
- Look for parts which, though functioning, show obvious signs of deterioration. Point them out to the customer and recommend their replacement.
- Check the line cords for cracks and abrasion. Recommend the replacement of any such line cord to the customer.
- Check the B+ and HV to see if they are specified values. Make sure your instruments are accurate; be suspicious of your HV meter if sets always have low HV.
- Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

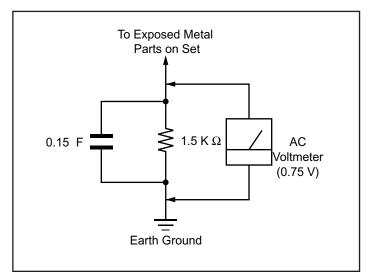


Figure A. Using an AC voltmeter to check AC leakage.

Leakage Test

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microamperes). Leakage current can be measured by any one of three methods.

- A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instructions.
- 2. A battery-operated AC milliampmeter. The Data Precision 245 digital multimeter is suitable for this job.
- 3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low voltage scale. The Simpson's 250 and Sanwa SH-63TRD are examples of passive VOMs that are suitable. Nearly all battery-operated digital multimeters that have a 2 VAC range are suitable (see Figure A).

How to Find a Good Earth Ground

A cold-water pipe is a guaranteed earth ground; the cover-plate retaining screw on most AC outlet boxes is also at earth ground. If the retaining screw is to be used as your earth ground, verify that it is at ground by measuring the resistance between it and a cold-water pipe with an ohmmeter. The reading should be zero ohms.

If a cold-water pipe is not accessible, connect a 60- to 100-watt troublelight (not a neon lamp) between the hot side of the receptacle and the retaining screw. Try both slots, if necessary, to locate the hot side on the line; the lamp should light at normal brilliance if the screw is at ground potential (see Figure B).

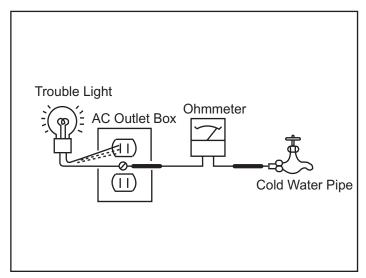


Figure B. Checking for earth ground.

SELF-DIAGNOSTIC FUNCTION



The units in this manual contain a self-diagnostic function. If an error occurs, the STANDBY/STEREO LED will automatically begin to flash. The number of times the LED flashes translates to a probable source of the problem. A definition of the STANDBY/STEREO LED flash indicators is listed in the instruction manual for the user's knowledge and reference. If an error symptom cannot be reproduced, the Remote Commander can be used to review the failure occurrence data stored in memory to reveal past problems and how often these problems occur.

Diagnostic Test Indicators

When an error occurs, the STANDBY/STEREO LED will flash a set number of times to indicate the possible cause of the problem. If there is more than one error, the LED will identify the first of the problem areas.

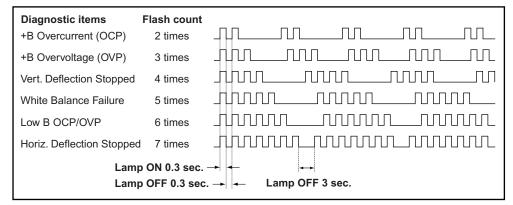
Results for all of the following diagnostic items are displayed on screen. No error has occurred if the screen displays a "0".

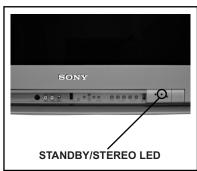
Diagnostic Item	No. of times STANDBY/ STEREO lamp flashes	Display Result	Probable Cause Location	Detected Symptoms
Power does not turn on	Does not light		Power cord is not plugged in. Fuse is burned out F6001 (A Board).	Power does not come on. No power is supplied to the TV. AC power supply is faulty.
+B Overcurrent (OCP) (See Note 1)	2 times	2:0 or 2:1	H.OUT (Q5030) is shorted (D Board). +B PWM (Q5003) is shorted (D Board). IC9001, IC9002, IC9003 is shorted (C Board).	Power does not come on. Load on power line is shorted.
+B Overvoltage (OVP)	3 times	3:0 or 3:1	IC6505 is faulty (D Board).	Has entered standby mode.
Vertical Deflection Stopped	4 times	4:0 or 4:1	± 15V is not supplied (D Board). IC5004 is faulty (D Board).	Has entered standby state after horizontal raster. Vertical deflection pulse is stopped. Power line is shorted or power supply is stopped.
White Balance Failure (not balanced)	5 times	5:0 or 5:1	Video OUT (IC9001-IC9003) is faulty (C Board). CRT drive (IC201) is faulty (A Board). G2 is improperly adjusted (See Note 2).	No raster is generated. CRT Cathode current detection reference pulse output is small.
LOW B OCP/OVP (overcurrent/overvoltage) (See Note 3)	6 times	6:0 or 6:1	+5 line is overloaded (A, B Boards). +5 line is shorted (A, B Boards). IC6007 is faulty (A Board).	No picture.
Horizontal Deflection Stopped	7 times	7:0 or 7:1		No picture.

Note 1: If a +B Overcurrent is detected, stoppage of the Vertical Deflection is detected simultaneously. The symptom that is diagnosed first by the microcontroller is displayed on screen.

Note 2: Refer to Screen (G2) Adjustment in Section 2-5. of this manual.

Display of STANDBY/STEREO LED Flash Count





One flash count is not used for selfdiagnostic.

Stopping the STANDBY/STEREO LED Flash

Turn off the power switch on the TV main unit or unplug the power cord from the outlet to stop the STANDBY/STEREO LAMP from flashing.

Self-Diagnostic Screen Display

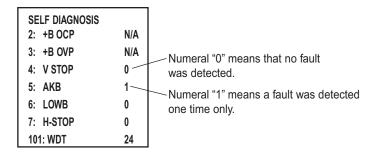
For errors with symptoms such as "power sometimes shuts off" or "screen sometimes goes out" that cannot be confirmed, it is possible to bring up past occurrences of failure on the screen for confirmation.

Note 3: If STANDBY/STÈREO LED flashes six (6) times, unplug the unit and wait 10 seconds before performing the adjustment.

To Bring Up Screen Test

In standby mode, press buttons on the Remote Commander sequentially, in rapid succession, as shown below:

DISPLAY → Channel 5 → Sound volume - → Power ON.



Handling of Self-Diagnostic Screen Display

Since the diagnostic results displayed on the screen are not automatically cleared, always check the self-diagnostic screen during repairs. When you have completed the repairs, clear the result display to "0".

Unless the result display is cleared to "0", the self-diagnostic function will not be able to detect subsequent faults after completion of the repairs.

Clearing the Result Display

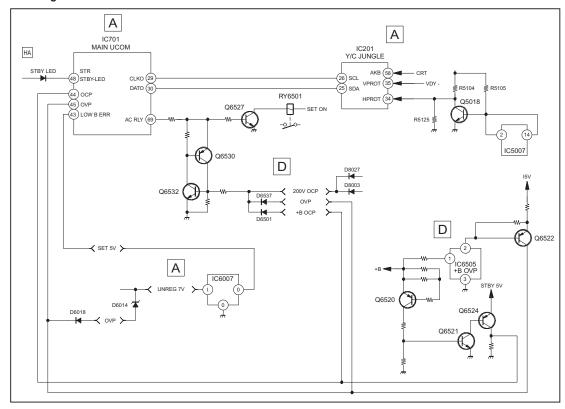
To clear the result display to "0", press buttons on the Remote Commander sequentially when the diagnostic screen is displayed, as shown below:

Channel 8 ENTER

Quitting the Self-Diagnostic Screen

To quit the entire self-diagnostic screen, turn off the power switch on the Remote Commander or the main unit.

Self-Diagnostic Circuit



+B Overcurrent (OCP)

Occurs when an overcurrent (more than 6A) on the +B (135V) line is detected by R6598/R6591. It will cause Q6520 to turn on and force the AC relay to turn off through Q6532 and Q6530.

+B Overvoltage (OVP)

Occurs when 1) overvoltage (more than +140V) on the +B (135V) line is detected by IC6505, or 2) an overvoltage (more than 7.5 V) on the unreg 7V line is detected by D6014. The AC relay will turn off through Q6532 and Q6530.

Vertical Deflection Stopped

Occurs when an absence of the vertical deflection pulse is detected by IC201. Power supply will shut down when waveform interval exceeds 2 seconds.

White Balance Failure

If the RGB levels* do not balance within 2 seconds after the power is turned on, this error will be detected by IC201. TV will stay on, but there will be no picture.

*(Refers to the RGB levels of the AKB detection Ref pulse that detects 1K).

Low B OCP/OVP Error

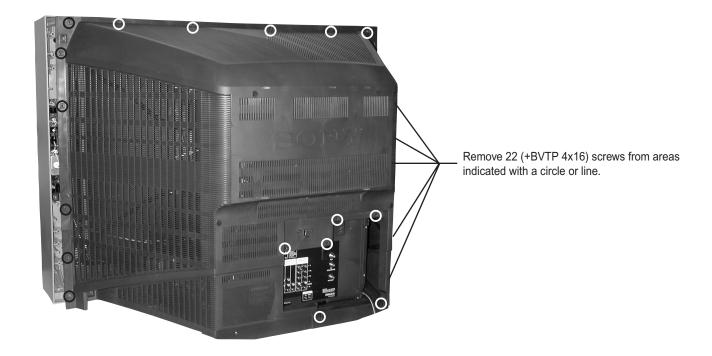
Occurs when set 5V is out.

Horizontal Deflection Stopped

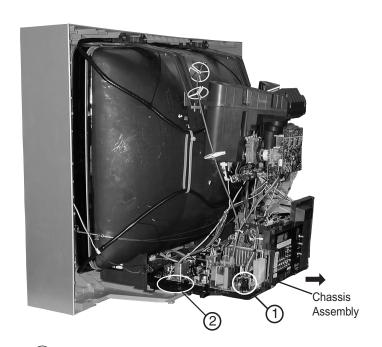
Occurs when either: 1) a +B overcurrent is detected (IC5007), or 2) overheating is detected (Thermistor TH5002).

SECTION 1: DISASSEMBLY

1-1. REAR COVER REMOVAL



1-2. CHASSIS ASSEMBLY REMOVAL



- (1) <u>CAUTION!</u> Heat sink on IC5004 is -15V. Care must be taken not to allow heat sink to touch any other components.
- (2) Gently pull the chassis assembly away from the bezel.

1-3. SERVICE POSITION



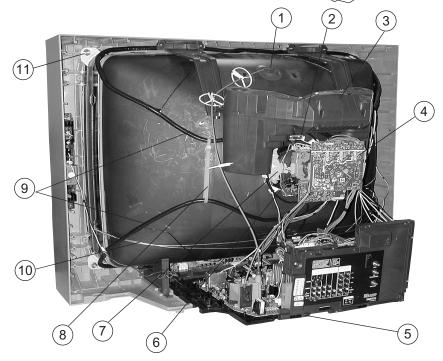
1 Pull up and rotate both the A and D Boards in order to service the unit.

1-4. PICTURE TUBE REMOVAL

WARNING: BEFORE REMOVING THE ANODE CAP

High voltage remains in the CRT even after the power is disconnected. To avoid electric shock, discharge CRT before attempting to remove the anode cap. Short between anode and CRT coated earth ground strap.

- 1 Discharge the anode of the CRT and remove the anode cap.
- 2 Unplug all interconnecting leads from the deflection yoke, neck assembly, degaussing coils and CRT grounding strap.
- (3) Remove the Speaker Assemblies.
- (4) Remove the C Board from the CRT.
- 5 Remove the chassis assembly.
- (6) Loosen the neck assembly fixing screw and remove.
- (7) Loosen the deflection yoke fixing screw and remove.
- 8 Place the set with the CRT face down on a cushion and remove the degaussing coil holders.
- (9) Remove the degaussing coils.
- (10) Remove the CRT grounding strap and spring tension devices.
- Unscrew the four CRT fixing screws [located on each CRT corner] and remove the CRT [Take care not to handle the CRT by the neck].



Coated

Earth

Ground

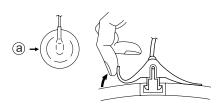
Strap

ANODE CAP REMOVAL PROCEDURE

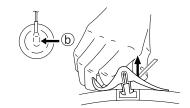
WARNING: High voltage remains in the CRT even after the power is disconnected. To avoid electric shock, discharge CRT **before** attempting to remove the anode cap. Short between anode and coated earth ground strap of CRT.

NOTE: After removing the anode cap, short circuit the anode of the picture tube and the anode cap to either the metal chassis, CRT shield, or carbon painted on the CRT.

REMOVAL PROCEDURES



Turn up one side of the rubber cap in the direction indicated by arrow a .



Use your thumb to pull the rubber cap firmly in the direction indicated by arrow (b).



When one side of the rubber cap separates from the anode button, the anode cap can be removed by turning the rubber cap and pulling it in the direction of arrow (C).

HOW TO HANDLE AN ANODE CAP

- Do not use sharp objects which may cause damage to the surface of the anode cap.
- To avoid damaging the anode cap, do not squeeze the rubber covering too hard.A material fitting called a shatter-hook terminal is built into the rubber.
- 3. Do not force turn the foot of the rubber cover. This may cause the shatter-hook terminal to protrude and damage the rubber.





SECTION 2: SET-UP ADJUSTMENTS

The following adjustments should be made when a complete realignment is required or a new picture tube is installed.

These adjustments should be performed with rated power supply voltage unless otherwise noted.

The controls and switch should be set as follows unless otherwise noted:

VIDEO MODE: STANDARD (RESET)

Perform the adjustments in order as follows:

- 1. Beam Landing
- 2. Convergence
- 3. Focus
- 4. Screen (G2)
- 5. White Balance

Test Equipment Required:

- 1. Color Bar Pattern Generator
- 2. Degausser
- 3. DC Power Supply
- 4. Digital Multimeter

2-1. BEAM LANDING

Preparation:

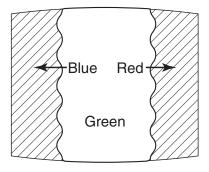
- · Input a white pattern signal.
- Face the picture tube in an East or West direction to reduce the influence of geomagnetism.

NOTE: Do not use the hand degausser; it magnetizes the CRT.

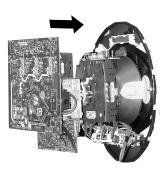
- 1. Input white pattern from pattern generator. Set the PICTURE control to maximum, and the BRIGHTNESS control to standard.
- 2. Perform Focus, G2 and White Balance adjustments.
- 3. Loosen the deflection yoke mounting screw, and set the purity control to the center as shown below:



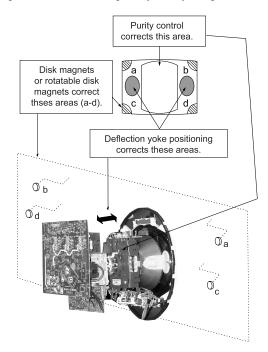
- 4. Input a green pattern from the pattern generator.
- Move the deflection yoke backwards, and adjust with the purity control so that green is in the center and red and blue are even on both sides.



Move the deflection yoke forward, and adjust so that the entire screen becomes green.



- Switch over the raster signal to red and blue and confirm the condition.
- 8. When the position of the deflection yoke is determined, tighten it with the deflection yoke mounting screw.
- 9. If landing at the corner is not right, adjust it by using the disk magnets.



2-2. V-PIN AND V-CEN ADJUSTMENT

Preparation:

- · Input a cross hatch pattern signal.
- Face the picture tube in a North/South direction and correct rotation.
- · Set Video Mode to: Standard (Reset)
- Adjust service mode CXA2150D-1 04 V-CEN so that the top pin and bottom pin are symmetrical from top to bottom.
- 2. Adjust service mode CXA2150D-1 05 V-PIN so that the top pin and bottom pin are symmetrical from top to bottom.
- Lines should be straight from left to right. Check landing for side effect

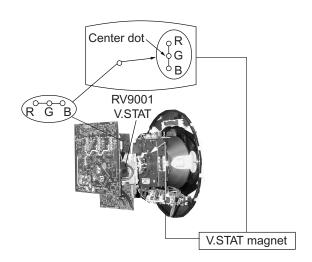
2-3. CONVERGENGE

Preparation:

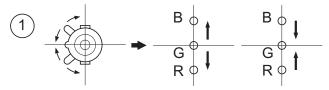
- Set the CONTRAST and BRIGHTNESS control to 50%.
- · Input HD dot pattern.

2-3.1. VERTICAL AND HORIZONTAL STATIC CONVERGENCE

- Disconnect the dynamic convergence before adjusting static convergence (CN5510), except for minor touch-up.
- Adjust H.STAT convergence, RV9001, to converge red, green, and blue dots in the center of the screen.
- Adjust V. STAT magnet to converge red, green and blue dots in the center of the screen.



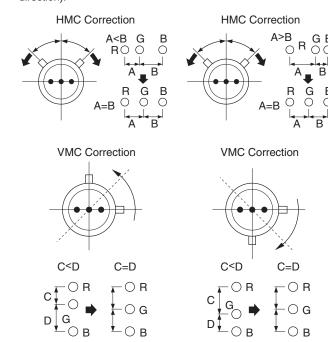
4. Tilt the V.STAT magnet and adjust static convergence to open or close the V.STAT magnet.



2-3.2. OPERATION OF BMC (HEXAPOLE) MAGNET

The respective dot positions result from moving each magnet interact. Perform the following adjustments while tracking.

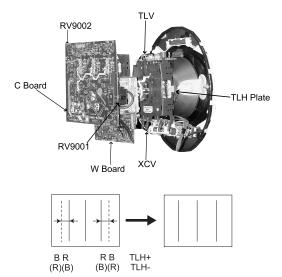
 Use the V.STAT tabs to adjust the red, green and blue dots so that they line up at the center of the screen (move the dots in a horizontal direction).



2-3.3. TLH PLATE ADJUSTMENT

Preparation:

- · Input a cross hatch pattern signal.
- Adjust PICTURE QUALITY to Standard, PICTURE and BRIGHTNESS to 50%, and OTHER to Standard.
- Adjust unbalanced horizontal convergence of red and blue dots by adjusting the TLH Plate on the deflection yoke.

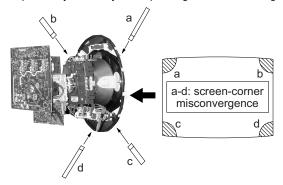


- 1. Adjust XCV core to balance X axis.
- Adjust the vertical red and blue convergence with V.TILT (TLV VR).Note: Perform adjustments while tracking Item 1.

2-3.4. SCREEN-CORNER CONVERGENCE

Preparation:

- · Input a cross hatch pattern signal.
- 1. Affix a permalloy assembly corresponding to the misconverged areas.



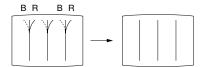
2-3.5. DYNAMIC CONVERGENCE ADJUSTMENTS

Set dynamic convergence using the following service mode adjustment data.

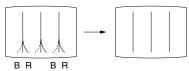
CXA8070AP

NO.	Register	Function	Data Length	Initial Data
1	YBWU	VCA9	0-63	31
2	YBWL	VCA10	0-63	31
3	RSAP	DC-AMP1	0-63	31
4	RUBW	VCA5	0-63	31
5	RLBW	VCA6	0-63	31
6	LSAP	DC-AMP2	0-63	31
7	LUBW	VCA10	0-63	31
8	LLBW	VCA2	0-63	31

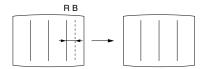
1. YBWU (Upper Y-BOW)



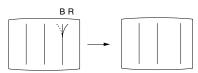
2. YBWL (Bottom BOW)



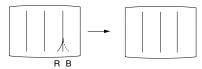
3. RSAP (Right AMP)



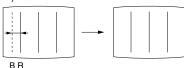
4. RUBW (Right Side Upper C-BOW)



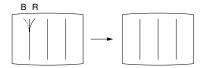
5. RLBW (Right Side Bottom C-BOW)



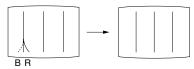
6. LSAP (Left AMP)



7. LUBW (Left Side Upper C-BOW)



8. LLBW (Left Side Bottom C-BOW)



2-4. FOCUS ADJUSTMENT

- 1. Input a dot signal.
- 2. Set Video Mode to STANDARD.
- Adjust focus VR counter-clockwise to confirm that the dot's shape is centered.
- 4. Input a HP monoscope signal.
- 5. Confirm center focus with focus VR.



2-5. SCREEN (G2)

- 1. Input a monoscope pattern (NTSC).
- 2. Set to service mode and adjust as follows:

CXA2150P-2

I	NO.	Disp.	Item	Avg.
	0	ALBK	ALL_BLK	0

- 3. Adjust RV9002 on the C Board so that the voltage on red, green and blue cathodes is $175 \pm 2 \, \text{VDC}$.
- Adjust the hotizontal line at the top of the screen so it is cut off.
 Note: Never set ALBK to 1 when external power supply is connected to cathode.

2-6. PICTURE QUALITY ADJUSTMENTS

Preparation:

- Set PRO MODE (Picture: MAX, GAMMA: 0).
- Dynamic-color: Off (=Trinitron: MID).
- Set the Service Mode to the following:

C2150P-4

NO.	Name	Control Function	Avg. Data
06	UDCL	Dynamic Color: OFF	0
80	UGRAM	GRAMMA	5
15	DCTR	DC-TRAN	2
16	DPIC	DYNAMIC PIC: OFF	1

- 1. Input signal (480i):
 - Color Bar Video 75 IRE (White) 75% modulation 7.5% Set-up.
 - Color Bar RF 75 IRE (White) 75% modulation 7.5% Set-up.

2-6.1. VIDEO INPUT - TWO PICTURE SUB CONTRAST ADJUSTMENT

Preparation:

- Input a Color Bar signal to VIDEO 1 (75 IRE 75%).
- Set picture mode: P&P (PRO MODE).
- 1. Set to Service Mode and adjust as follows:

2150P-4

NO.	Name	Control Function	Avg. Data
00	UPIC	PICTURE	63
02	UCOL	COLOR	0

2150P-2

NO.	Name	Control Function	Avg. Data
01	RGBS	R ON	4

INITIAL DATA (IMPORTANT)

2150P-4

NO.	Name	Control Function	Avg. Data
23	SCON	SUB-CONT	8

2103-1

NO.	Name	Control Function	Avg. Data
00	YLEV	Y-OUT	23

2103-2

NO.	Name	Control Function	Avg. Data
00	YLEV	Y-OUT	23

- 2. Connect oscilloscope to Pin 1 of CN9001 (R.DRV) on the C Board.
- 3. Adjust MAIN (left) side contrast according to Service Mode for SCON.

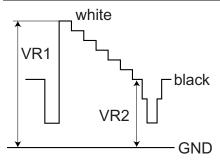
2103-1

NO.	Name	Control Function
02	SCON	SUB-CONT

4. Adjust SUB (right) side contrast according to Service Mode for SCON.

2103-2

NO.	Name	Control Function
02	SCON	SUB-CONT



 $VR1-VR2 = \triangle VR = 2.08 \pm 0.05 Vp-p$

5. Write data from Steps 3 and 4 above, into memory.

2-6.2. VIDEO INPUT - SUB HUE/SUB COLOR ADJUSTMENT

Preparation:

- Input a Color Bar signal to VIDEO 1 (75 IRE 75%).
- Set picture mode: P&P (PRO MODE).
- 1. Set to Service Mode and adjust as follows:

2150P-4

NO.	Name	Control Function	Avg. Data
00	UPIC	PICTURE	63
02	UCOL	COLOR	31

2150P-2

NO.	Name	Control Function	Avg. Data
01	RGBS	R ON	7

- 2. Connect an oscilloscope to Pin 5 of CN9001 (B. DRV) on the C Board.
- 3. Adjust MAIN (left) side color according to Service Mode for SCOL.
- 4. Adjust MAIN (left) side color according to Service Mode for SHUE.

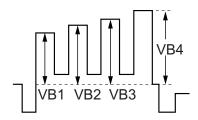
2103-1

NO.	Name	Control Function
03	SCOL	SUB-COL
04	SHUE	SUB-HUE

- 5. Adjust SUB (right) side color according to Service Mode for SCOL.
- 6. Adjust SUB (right) side color according to Service Mode for SHUE.

2103-2

NO.	Name	Control Function
03	SCOL	SUB-COL
04	SHUE	SUB-HUE



COLOR: VB1 ≤ VB4 (=VB1 + 0~90 mV) HUE: VB2 ≤ VB3 (=VB2 + 0~90 mV) (HUE: Adjust data -2 STEP)

7. Write data into memory.

2-6.3. RF INPUT - TWO PICTURE SUB CONTRAST ADJUSTMENT

Preparation:

- Input a Color Bar signal to RF (75 IRE 75%).
- Set picture mode: P&P (PRO MODE).
- 1. Set to Service Mode and adjust as follows:

2150P-4

NO.	Name	Control Function	Avg. Data
00	UPIC	PICTURE	63
02	UCOL	COLOR	0

2150P-2

NO.	Name	Control Function	Avg. Data
01	RGBS	R ON	4

INITIAL DATA (IMPORTANT)

2150P-4

NO.	Name	Control Function	Avg. Data
23	SCON	SUB-CONT	9

2103-1

NO.	Name	Control Function	Avg. Data
00	YLEV	Y-OUT	23

2103-2

NO.	Name	Control Function	Avg. Data
00	YLEV	Y-OUT	23

Note: Use the same average data as 2-6.1., Items 3 - 4 after the adjustment.

- Connect an oscilloscope to Pin 1 of CN9001 (R. DRV) on the C Board.
- 3. Adjust MAIN (left) side contrast according to service mode for SCON.

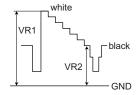
2103-1

ı	NO.	Name	Control Function
	02	SCON	SUB-CONT

4. Adjust SUB (right) side contrast according to Service Mode for SCON.

2103-2

NO.	Name	Control Function
02	SCON	SUB-CONT



 $VR1-VR2 = \triangle VR = 2.08 \pm 0.05 Vp-p$

5. Write data from Steps 3 - 4 above, into memory.

2-6.4. RF INPUT - SUB HUE/SUB COLOR ADJUSTMENT

Preparation:

- Input a Color Bar signal to RF (75 IRE 75%).
- Set picture mode: P&P (PRO MODE).
- 1. Set to Service Mode and adjust as follows:

2150P-4

NO.	Name	Control Function	Avg. Data
00	UPIC	PICTURE	63
02	UCOL	COLOR	31

2150P-4

NO.	Name	Control Function	Avg. Data
01	RGBS	R ON	7

INITIAL DATA (IMPORTANT) 2150P-4

NO.	Name	Control Function	Avg. Data
24	CLOF	OFFSET for UCOL	8
25	HUOF	OFFSET for UHUE	4

2103-1

NO.	Name	Control Function	Avg. Data
01	CLEV	CB & CR-OUT	20
20	CBOF	CB-OFFSET	31
21	CROF	CR-OFFSET	31

2103-2

NO.	Name	Control Function	Avg. Data
01	CLEV	CB & CR-OUT	19
20	CBOF	CB-OFFSET	31
21	CROF	CR-OFFSET	31

Note: Use the same average data as 2-6.2., Items 3-6 after the adjustment.

- 2. Connect an oscilloscope to pin 5 of CN9001 (B. DRV) on the C Board.
- 3. Adjust MAIN (left) side color according to Service Mode for SCOL.
- 4. Adjust MAIN (left) side color according to Service Mode for SHUE.

2103-1

NO.	Name	Control Function
03	SCOL	SUB COLOR
04	SHUE	SUB HUE

5. Adjust SUB (right) side color according to Service Mode for SCOL.

6. Adjust SUB (right) side color according to Service Mode for SHUE.

2103-2

NO.	Name	Control Function
03	SCOL	SUB COLOR
04	SHUE	SUB HUE



COLOR: VB1 ≤ VB4 (=VB1 + 0~90 mV) HUE: VB2 ≤ VB3 (=VB2 + 0~90 mV) (HUE: Adjust data -2 STEP)

7. Write data into memory.

2-7. WHITE BALANCE (CRT) AND SUB BRIGHT ADJUSTMENT

Preparation

- Input an all white 480I (15.734 KHz) signal into the VIDEO 1 input terminal to perform the White Balance (highlight, cut-off) adjustments.
 The parameters to adjust are in the CXA2150P in Service Mode.
- 1. Set the following:

Picture: Full Mode

Pro Mode

Color: Center

2. Adjust White Balance in the Service Mode and set the following data:

2150P-1

NO.	Name	Control Function	Avg. Data
05	RDRV	R-DRIVE	Fix: 46
06	GDRV	G-DRIVE	Adjust
07	BDRV	B-DRIVE	Adjust
80	RCUT	R-CUT OFF	Fix: 41
09	GCUT	G-CUT OFF	Adjust
10	BCUT	B-CUT OFF	Adjust

- 3. Adjust Sub Brightness: Input an all black signal (to IRE 7.5% set up) 480i (15.75 KHz) signal into the VIDEO 1 input terminal. Adjust the following parameter of CXA2150P-1:
- 4. Check Initial Data (Important).

CXA2150P-1

NO	Name	Control Function	Avg. Data
04	SBRT	SUB-BRIGHT	20

2150P-1

NO.	Name	Control Function	Avg. Data
00	SBOT	SUB-BRT OFFSET	7
12	SBOF	SUB-BRT OFFSET	63

5. Repeat Steps 2-4.

2-8. RASTER CENTER ADJUSTMENT

Preparation:

- · Input a monoscope signal.
- · Set to NTSC (DRC) mode.
- 1. Set to Service Mode and adjust as follows:

CXA2150P-2

NO.	Name	Control Function	Avg. Data
06	AGNG	AGING 1, AGING 2	2

CXA2150D-2

NO.	Name	Control Function	Avg. Data
02	HSIZ	Horiz Size	45

CXA2150D-3

NO.	Name	Control Function	Avg. Data
00	HBLK	Blanking Enable	0

- 2. Reduce HSIZ to see sides of raster.
- 3. Adjust H-Center with CXA2150D-2 00.
- 4. Adjust to the best screen position with H-CENT and write data.
- 5. Restore aging, HSIZ and HBLK to original condition.

2-9. PICTURE DISTORTION ADJUSTMENTS

2-9.1. NTSC (DRC) FULL MODE ADJUSTMENT

- 1. Face the picture tube in an east-west direction.
- Complete V-PIN and V-CEN adjsuments first (A2150-D1 05 V-PIN, A2150-D1 04 V-CEN).
- 3. Input a monoscope and crosshatch signal. Adjust the picture distortion with the following service parameters to balance the best condition for these two signals.

A2150-D1	00	VPOS
A2150-D1	01	VSIZ
A2150-D1	02	VLIN
A2150-D1	03	VSCO
A2150-D1	04	VCEN
A2150-D1	05	VPIN
A2150-D1	07	HTPZ

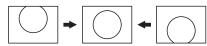
A2150-D2	01	HPOS
A2150-D2	02	HSIZ
A2150-D2	03	SLIN
A2150-D2	04	MPIN
A2150-D2	06	UCP
A2150-D2	07	LCP
A2150-D2	13	PPHA
A2150-D2	14	VANG
A2150-D2	15	LANG
A2150-D2	16	VBOW
A2150-D2	17	I BOW

Note: Make sure that the picture size is within specs. Vertical size is 11.7 ± 0.1 sq. and horizontal size is 15.6 ± 0.1 sq.

4. Write data into memory and then set the screen to 1080i mode.

CXA2150D-1

0. VPOS (V-POSITION)



1. VSIZ (V-SIZE)



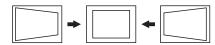
2. VLIN (V-LINE)



3. VSCO (VS-COR)



7. HTPZ (H-TRAPEZOID)

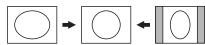


CXA2150D-2

1. HPOS (H-POSITION)



2. HSIZ (H-SIZE)



5. PIN (PIN AMP)



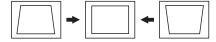
6. UCP (UP COR PIN COR)



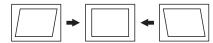
7. LCP (LOW CO PIN COR)

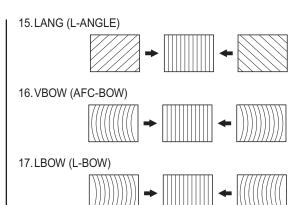


13. PPHA (PIN PHASE)



14. VANG (AFC-ANGLE)





2-9.2. 1080i HD MODE ADJUSTMENT

- 1. Input a 1080i cross-hatch signal and an HD monoscope signal that contains overscan markers.
- 2. Adjust the raster position per Section 2-8., only if this procedure was not performed for full mode.
- Adjust the geometry similar to Full DRC mode. Vertical size is 11.7 ± 0.1 sq. and horizontal size is 15.6 ± 0.1 sq., if monoscope signal is available. Otherwise, set the Vertical size to 91.0 ± 0.6% scan and Horizontal size as 91.0 ± 0.6% scan.
- 4. Use the following register to adjust the horizontal parameter:

A2150-D2	01	HPOS
AZ 130-DZ	01	111 03

Note: If necessary, touch up the geometry using the data register listed above for Full mode.

5. Write the data into memory.

2-9.3. VERTICAL COMPRESSED MODE CHECK AND CONFIRMATION

- 1. Input a monoscope and crosshatch signal.
- 2. Check vertical compressed mode.

SECTION 3: SAFETY RELATED ADJUSTMENTS

3-1. RV8001, RV8002 CONFIRMATION METHOD AND HV SERVICE ADJUSTMENTS

3-2. B+ MAX CONFIRMATION

Check Condition:

AC input voltage: 120 (± 2) VAC at Board Adjustment Process

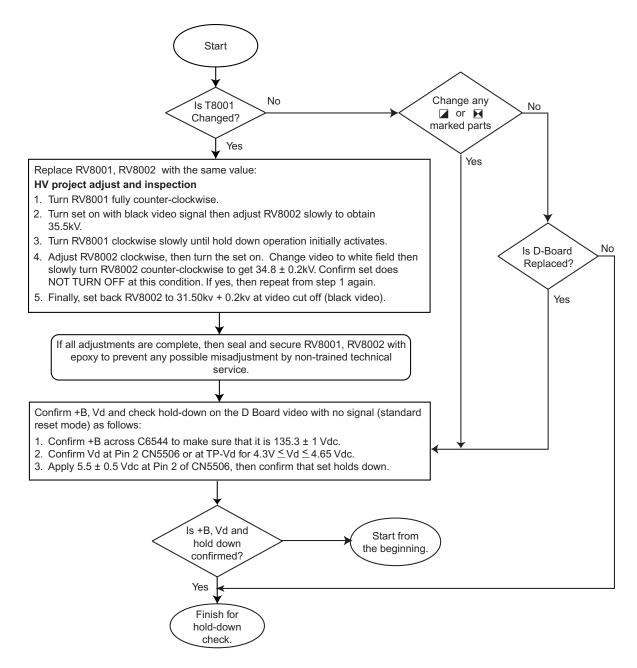
130 (± 2) VAC at QC

120 (± 2) VAC at Overall Adjustment (after aging)

Note: If using a stabilized power supply, make sure that the distortion factor is 3% or less.

Setting Mode: Full mode
Signal Input: Cross-hatch of NTSC at QC
Initial Setting: Reset condition at QC
Confirm Point: Across C6544 for B+ of D Board

3-3. HV SERVICE FLOWCHART



SECTION 4: CIRCUIT ADJUSTMENTS

ELECTRICAL ADJUSTMENTS BY REMOTE COMMANDER

Use the Remote Commander (RM-Y184) to perform the circuit adjustments in this section.

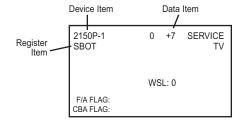
Test Equipment Required: 1. Pattern generator 2. Frequency counter 3. Digital multimeter 4. Audio oscillator

4-1. SETTING THE SERVICE ADJUSTMENT MODE

- 1. Standby mode (Power off).
- 2. Press the following buttons on the Remote Commander within one second of each other:

DISPLAY → Channel 5 → Sound Volume + → Power

SERVICE ADJUSTMENT MODE VIEW



READING THE MEMORY

- 1. Enter into Service Mode.
- 2. Press on the Remote Commander.
- 3. Press ENTER to read memory.

ADJUSTING THE PICTURE

- 1. Enter into Service Mode
- 2. Press 2 or 5 on the remote to select the device item.
- 3. Press 1 or 4 on the remote to select an item.
- 4. Press 3 or 6 on the remote to change the data.
- 5. Press MUTING then ENTER to write into memory.

4-1.1. RESETTING THE DATA

Note: Be careful when using the remote! It will clear and re-initialize ALL NVM data including deflection adjustment data if not reset properly as follows:

RESETTING THE DEFLECTION NVM DATA

- 1. Enter into Service Mode.
- 2. Press $\overline{7}$, then $\overline{\text{MENU}}$, and then press $\overline{\text{ENTER}}$ on the remote.

RESETTING THE SYSTEM NVM DATA

- 1. Enter into Service Mode.
- 2. Press 7, then 9, and then press ENTER on the remote.

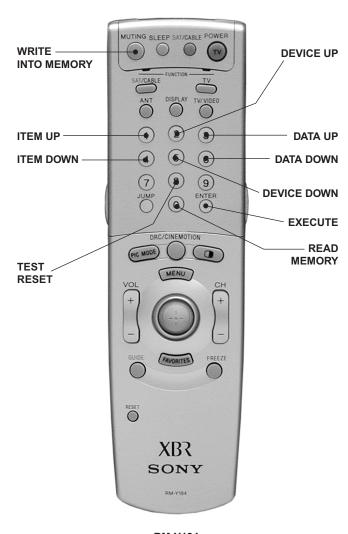
RESETTING THE SYSTEM NVM DATA

- 1. Enter into Service Mode.
- 2. Press 8 and then press ENTER on the remote.

4-2. MEMORY WRITE CONFIRMATION METHOD

- 1. After adjustment, pull out the plug from the AC outlet, then replace the plug in the AC outlet again.
- 2. Turn the power switch ON and set to Service Mode.
- 3. Call the adjusted items again to confirm they were adjusted.

4-3. REMOTE ADJUSTMENT BUTTONS AND INDICATORS



4-4. SERVICE DATA LISTS
KV-40XBR700

	DX1A-2001* Service List Contents & Notes								
Categ	jory Number & Name	Device Name	Device Reference Number	Slave Address	Comment				
# 1	3D-COMB	μPD64082	IC3501 / BC-board	B8h (W) & B9h (R)	W&R: Write & Read				
# 2-1	CXA2103-1 (Main) CXA2103-2 (Sub)	CXA2103Q	IC3048 (Main) / B-board IC3110 (Sub) / B-board	9Ah 9Eh					
# 3-1	CXA2150P-1		(5 0.2) / 2 25 0.1 0	<u> </u>					
# 3-2	CXA2150P-2	07/404500	10004 / A .	001					
# 3-3	CXA2150P-3	CXA2150Q	IC201 / A-board	86h					
# 3-4	CXA2150P-4								
# 4-1	CXA2150D-1								
# 4-2	CXA2150D-2	CXA2150Q	IC201 / A-board	86h					
# 4-3	CXA2150D-3	OVA04540	IC2004 / D. b. a.m.d	0.45					
# 5	CXA2151	CXA2151Q	IC3001 / B-board	84h					
#6	D-CONV	CXA8070P	IC5513 / D-board	DEh					
# 7	CXA2026	CXA2026AS	IC5511 / D-board	8Eh					
#8	AP	BH3868FS	IC7001 / A-board	82h					
#9	TRUS	NJM2180M	IC4101 / S-board	2Eh	Controlled through CXA1315M (IC4103 / S-board / 48h)				
# 10	MID1	CXD9509AQ	IC3408 / B-board	2Eh	Controlled through MID-XA Micro (IC3090 / B-board / 64h)				
# 11	MID2	CXD9509AQ	IC3408 / B-board	2Eh	Controlled through MID-XA Micro (IC3090 / B-board / 64h)				
# 12	MID3	CXD9509AQ	IC3408 / B-board	2Eh	Controlled through MID-XA Micro (IC3090 / B-board / 64h)				
# 13	MID5	CXD9509AQ	IC3408 / B-board	2Eh	Controlled through MID-XA Micro (IC3090 / B-board / 64h)				
# 14	OSD	M306V2ME-153FP	IC701 / A-board	60h	DX1A-2001 System Micro (V1.0)				
		μPD64082	IC3501 / BC-board	B8h (W) & B9h (R)					
# 15	SNNR	CXA2103Q	IC3048 (Main) / B-board	9Ah					
		CXA2150Q	IC201 / A-board	86h					
# 16	ID1	CXD2085M	IC3603 / B-board	40h					
# 17	CCD&VCHIP	CXP85840A-039Q	IC3602 (Main) / B-board IC3601 (Sub) / B-board	68h (Main) 6Ch (Sub)	CCD&Vchip Micro (V2.14)				
# 18	OP	M306V2ME-153FP	IC701 / A-board	60h	DX1A-2001 System Micro {V1.0}				
# 19	ID	M306V2ME-153FP	IC701 / A-board	60h	DX1A-2001 System Micro {V1.0}				
	2001 System Micro & for Services	M306V2ME-153FP (MASK), Software Version 1.0, IC701/A-board (Slave Adress: 60h) The system micro name, software&patch versions, and the status of NVM devices are displayed only when in the service catergory (#19): ID.							
DX1A-2	2001 MID-XA Micro	MB94918RPF-G-137-BI	ND (MASK), Software Version	on 12/08/00, IC3090	/B-board (Slave Address: 64h)				
DX1A-2	2001 CCD&Vchip Micro	CXP85840A-039Q (MA	SK), Software Version 2.14,	IC3602/B-board (Ma	ain/Slave Address: 68h) & IC3601/B-board (Sub/Slave Address:				
Note:									

SERVICE DATA LISTS
KV-40XBR700

DX1A-2001&2000 SERVICE LIST (#1): 3D-COMB / mPD64082 (Part-1/4)

Device Name: mPD64082GF { 3D-Comb Filter / NEC } / IC3501 (BC-board) / P/N: 8-759-594-44 (SB#: V7372)

Slave Address: B8h (Write Address) / B9h (Read Address)

	Register o & Name	Control Register Function & Link	Data Type	Data Range		Data Initial/Av (32V&36		Comment	
					UHF/VHF	& CVideo	SV	ideo	0.51 (0.0 0.51 4.4)
					Standard	Non-standard	Standard	Non-standard	CVideo (CV): CVideo1~4 inputs
0	NRMD	Operation mode setting		0~3	0	1	3	3	SVideo (SV): SVideo1~3 inputs
1	YAPS	Y-output correction (V-aperture compensation & Y-peaking filtering)	С	0~3	3				<u>C</u> : Common data
2	CLKS	System clock setting	С	0~3	1				
		•			UHF/VHF	& CVideo	SV	ideo	
					Standard	Non-standard	Standard	Non-standard	
3	NSDS	Selection for standard/non-standard signal processing		0~3	0	0	0	0	
4	MSS	Selection for inter-frame/inter-line processing	С	0~3	0				
5	KILS	Killer processing selection	С	0~3	1				
6	CDL	C-signal phase with respect to the Y-signal (Fine adjustment at 70 ns/step)	O	0~7	3				
		NRMD Setting-based Control Table for DYCO, DYGA, DCCO, DCGA			NRMD = 0	NRMD = 1	NRMD = 2	NRMD = 3	
7	DYCO	DY detection coring level (Y motion detection coring)		0~15	2	2	2	2	
8	DYGA	<u> </u>		0~15	10	10	10	10	
9	DCCO			0~15	5	5	5	5	
10				0~15	5	5	5	5	
11	YNRL	Frame recersive YNR nonlinear filter limit level	С	0~3	1				
12	CNRL	Frame recersive CNR nonlinear filter limit level	C	0~3	1				
\Box	<u> </u>	Traine reserve et in criering an inter-	Ť		UHF/VHF	Video1~4	Video5&6		
13	VTRH	Hysteresis for Hsync non-standard signal detection (out-of-Hsync intra-field)		0~3	1	1	1		/ideo1~4 & SVideo1~3 inputs bPr-480i/480p/1080i inputs
14	VTRR	Sensitivity for Hsync non-standard signal detection (out-of-Hsync intra-field)		0~3	1	1	1		
15	LDSR	Sensitivity for frame non-standard signal detection (out-of-Hsync inter-frame)		0~3	2	2	2		
		VM&SNNR Setting-based Control Table for VAPG & VAPI			VAF	PG1 Data Based	on MENU/VM Se	tting	This setting continues to
Ш		VAPG= VAPG1 - VAPG2			VM = Off	VM = Low	VM = Mid	VM = High	the next page.
16		V-aperture compensation gain		0~7	0	2	3	4	
17	VAPI	V-aperture compensation convergence point		0~31	4	4	4		8
		SNNR Setting-based Control Table for YPFT & YHFG				SNNR = 0	SNNR = 1	SNNR Setting (-Offset) SNNR = 3
18	YPFT	Y peaking filter (BPF) center frequency		0~3	0	0	0	0	0
19		Y peaking filter (BPF) gain		0~15	7	0	1	2	3

Note: The same 3D-COMB service data is used for DX1A-2001&2000.

		DX1	A-2001&2	000 SERV	ICE LIST (#1): 3D-COMB / mPD64082 (Part-2/4)
Register No & Name	Data Initial/Average Setting (32V&36V CRTs)				Comment
	VAPG2 Data Based on SNNR/Offset-setting		etting		
	SNNR = 0	SNNR = 1	SNNR = 2	SNNR = 3	
#16 VAPG (cont.)	0	0	0	0	
Note: The same 3D-0	COMB service	data is used	for DX1A-2001	&2000.	

SERVICE DATA LISTS KV-40XBR700

	Register . & Name	Control Register Function & Link	Data Type	Data Range		Data Initial/Average Setting (32V&36V CRTs)			
		SNNR Setting-based Control Table for YHCO & YHCG			SNNR = 0	SNNR = 1	SNNR = 2	SNNR = 3	(Not SNNR Offset Da
20	YHCO	Y output high frequency component coring		0~3	1	1	1	1	YHCO&YHCG
21	YHCG	Y output high frequency component coring gain		0, 1	0	0	0	0	settings are sent directly to 3D-Comb
22	HSSL	Hsync slice level	С	0~15	12	C: Common	data	1	anddry to ob comb
23	VSSL	Vsync slice level	С	0~15	8				
24	ADCL	ADC clock delay	Ċ	0~3	3				
		NRMD Setting-based Control Table for D2GA			NRMD = 0	NRMD = 1	NRMD = 2	NRMD = 3	
25	D2GA	Moving detection gain		0~7	4	4	4	4	
26	KILR	Killer detection reference	С	0~15	3				<u></u>
27	OP1	Option1: Selection of comb filter & recursive noise reduction types	С	0, 1	1				
		, , , , , , , , , , , , , , , , , , ,			UHF/VHF	CVideo1	SVideo1	This se	etting continues to
28	NR1	Noise reduction on/off		0, 1	0	0	1		e next page.
29	NR2	SNNR control on/off	С	0, 1	0				
30	WSL	Noise level detection data		0~255	1 Byte Data fi	rom Read Reg	ister WSL		
31	HPLL	H-PLL filter (Must be set to 1 when MN signal is input.)	С	0, 1	1				
32	BPLL	Burst PLL filter	С	0, 1	1				
33	FSCF	Burst extraction gain	С	0, 1	0				
34	PLLF	PLL loop gain	С	0, 1	1				
				,	UHF/VHF	Video1~4	Video5&6		Video1~4 & SVideo1
35	CC3N	Selection of a line-comb filter C separation filter character	istic	0, 1	0	0	0	inputs Video5&6: YI	PbPr-480i/480p/1080i
36	HDP	Fine adjustment of the system H-phase	С	0~7	5			<u> </u>	·
37	BGPS	Internal burst gate start position {Gate Start Position from Hsync center = 0.25 x BGPS + 2 (ms)}	С	0~15	4				
38	BGPW	Internal burst gate width {Gate Width = 0.25 x BGPW + 0.5 (ms)}	С	0~15	10				
39	TEST	Test bit {0: Normal mode, 1: Test mode (forbidden setting	С	0, 1	0				
40	WSC	Amount of noise detection coring	С	0~3	1				
					UHF/VHF 8	& Video1~4	Video5&6	_	s used for non-standa
41	LIND	DRC-M line-doubling setting for non-standard signals	Micro	0~63	(0	2	signals such as Play	Station signals.
42	PFGO	(YPFG offset at GR on) Not used for DX1A		0~7	3	(Not used	for DX1A)		<u> </u>

	DX1A-2001&2000 SERVICE LIST (#1): 3D-COMB / mPD64082 (Part-4/4)									
Register No & Name	Data Initial/Average Setting (32V&36V CRTs)			Comment						
	CVideo2	SVideo2	CVideo3	SVideo3						
#28 NR1 (cont.)	0	1	0	1						
Note: The same 3D-	Note: The same 3D-COMB service data is used for DX1A-2001&2000.									

DX1A-2001&2000 SERVICE LIST (#2-1): CXA2103-1 {Main}

KV-40XBR700

Device Name: CXA2103Q { NTSC-YCT (Chroma Decoder) / SONY } / IC3048 (B-board) / P/N: 8-752-089-50 (SBorSD#: NA)

Slave Address: 9Ah { Main }

	Register	Control Register	Data	Data	Data Initial Setting & [Average Data] (32V&36V CRTs) Data Initial/Average Setting (32V&36V CRTs) UHF/VHF & Video YPbPr-480i Video: CVideo1~4 & SVideo1~3 Inputs							ing	Note
No	& Name	Function & Link	Type	Range		(32V&36	SV CRTs)			(32V&3	6V CRTs)		Note
					UHF/VHF	& Video	YPbP	r-480i					
					P&P-Left	P&P-Left	P&P-Left	P&P-Left			30i: If P&P-L		
0	YLEV	Y-Out gain		0~63	(M)-DRC 23	(M)-1080i 27*	(M)-DRC 35	(M)-480i 31*			signal from t		
1	CLEV	Cb&Cr-Out gains		0~63	20	55*	37	31*	*: Settings		t to MID/VD	O input.	
H	CLEV	CD&CI-Out gains		0 -03		/VHF		deo	. Settings	not useu			
2	SCON	Sub contrast	Adi.	0~15		[7]		[7]					
3	SCOL	Sub color	Adj.	0~15	7		7		Adj.: Adjus				
4		Sub hue	Adj.	0~15		-2steps]	•	-2steps]	[Adj2step	s]: The adju	sted data - 2	2 steps	
5	YDLY	Y/C delay time	/ taj.	0~3		0	, i (, t⇔i).	0					
		SNNR Data-related Settings			UHF/VHF	CVideo	SVideo	YPbPr 480i	SNNR=0 (-offset)	SNNR=1 (-offset)	SNNR=2 (-offset)	SNNR=3 (-offset)	
6	SHAP	Sharpness		0~15	6	4	4	4	0	1	2	3	
7	SHF0	Sharpness f0 selector		0~3	0	0	0	0				•	
8	PREO	Sharpness pre/over-shoot ratio		0~3	3	0	0	0					
9	BPF0	Chroma band filter f0 setting		0~3	3	0	0	0	0) (") 0)				
10	BPFQ	Chroma band filter Q setting		0~3	0	3	3	3		Video1~4 In Video1~3 In			
11	BPSW	Chroma band filter on/off		0, 1	1	0	0	0	Svideo. S	video i~3 iii	ipuis		
12	TRAP	Y bolck chroma trap filter on/off		0, 1	0	0	0	0					
13	LPF	YPbPr-Output LPF on/off		0, 1	0	0	0	0					
					UHF/VHF	Video	YPbPr 480i						
14		AFC Loop Gain (PLL between Hsync & HVCO)		0, 1	1	0	0						
15		V countdown system mode selector		0~3	3	3	3						
16		H&Vsync slide level setting		0~3	0	0	0						
17		Masking of macrovision signal on/off		0, 1	1	1	1						
18		H automatic adjustment on/off		0, 1	0	0	0						
19	PPHA	H TIM phase adjustment for video		0~15	7	7	7						
						& Video		r-480i					
					P&P-Left (M)-DRC	P&P-Left (M)-1080i	P&P-Left (M)-DRC	P&P-Left (M)-480i					
20	CBOF	Cb-Offset1 of Cb IN (Pin34)		0~(31)~63	31	31*	31	31*					
_~		Cb-Offset2 of EXT Cb (Pin38)		5 (57) 50					*: Settings				
21	CROF	Cr-Offset1 of Cr IN (Pin35)		0~(31)~63	31	31*	31	31*	(31): The c	enter setting	g = 31		
	J	Cr-Offset2 of EXT Cr (Pin39)		- (0.) 30									
	сх	A2150P-4/#13 UBLK Setting-related Controls for ATPD & DCTR			UBLK = 0	P&P & UBLK = 1	Favorite UBLK = 2	UBLK = 3	UBLK = 4	P&P & UBLK = 5	Favorite UBLK = 6	UBLK = 7	Single UBLK = 0~7
22	ATPD	Auto-pedestal Inflection Point		0~3	0	1	2	3	1	2	3	2	0
22		DC Transmission Ratio	i	0~3	0	1	1	4	2	2	2	3	0

Note: The same CXA2103 service data (Main&Sub) is used for DX1A-2001&2000.

SERVICE DATA LISTS
KV-40XBR700

DX1A-2001&2000 SERVICE LIST (#2-2): CXA2103-2 {Sub}

Device Name: CXA2103Q { NTSC-YCT (Chroma Decoder) / SONY } / IC3110 (B-board) / P/N: 8-752-089-50 (SBorSD#: NA)

Slave Address: 9Eh { Sub }

Register No & Name	Control Register Function & Link	Data Type	Data Range	Data li	nitial Setting	g & [Averag SV CRTs)	e Data]	Da		verage Sett	ing	Note
NO & Name	Fulliction & Link	туре	Range		•	V CIXIS)			(32 V & 3	ov CR13)		
					& Video			Video: CVi	deo1~4 & S	SVideo1~3 In	puts	
				P&P-Right (S)	P&P-Right (S)-DRC			P&P-Right	(S)-DRC: If	f P&P-Left is	1080i/	
0 YLEV	Y-Out gain		0~63	23	28					I from the sul	chroma	
1 CLEV			0~63	18	24			decoder is	switched to	DRC path.		
	James James			UHF	/VHF	Vio	deo					
2 SCON	Sub contrast	Adj.	0~15	7	[7]	7	[7]					
3 SCOL		Adj.	0~15	7	[7]	7	[7]	Adj.: Adjus		usted data - 2) atama	
4 SHUE	Sub hue	Adj.	0~15	7 [Adj	-2steps]	7 [Adj.	-2steps]	[Adj2Step	sj. The auju	usieu data - z	steps	
5 YDLY			0~3		0		0 1					
	SNNR Data-related Settings			UHF/VHF	CVideo	SVideo		SNNR=0 (-offset)	SNNR=1 (-offset)	SNNR=2 (-offset)	SNNR=3 (-offset)	
6 SHAP	Sharpness		0~15	6	4	4		0	1	2	3	
7 SHF0			0~3	0	0	0					-	
8 PREO			0~3	3	0	0						
9 BPF0			0~3	0	0	0						
10 BPFQ			0~3	0	0	0		CVideo: C\ SVideo: S'				
11 BPSW			0, 1	0	0	0		Svideo. S	video i~s ii	ipuis		
12 TRAP	Y bolck chroma trap filter on/off		0, 1	0	0	0						
13 LPF	YPbPr-Output LPF on/off		0, 1	0	0	0						
				UHF/VHF	Video							
14 AFCG	AFC Loop Gain		0, 1	1	0							
15 CDMD	V countdown system mode selector		0~3	3	3							
16 SSMD	H&Vsync slide level setting		0~3	0	0							
17 HMSK	Masking of macrovision signal on/off		0, 1	1	1							
18 HALI	H automatic adjustment on/off		0, 1	0	0							
19 PPHA	H TIM phase adjustment for video		0~15	7	7							
					& CVideo		r-480i					
				P&P-Right (S)	P&P-Right (S)-DRC	P&P-Right (S)	P&P-Right (S)-DRC					
20 CBOF	Cb-Offset1 of Cb IN (Pin34)		0~(31)~63	31	31	31*	31*					
CBOF	Cb-Offset2 of EXT Cb (Pin38)		0 (31) 03	J1	31	JI	31	*: Settings				
21 CROF	Cr-Offset1 of Cr IN (Pin35)		0~(31)~63	31	31	31*	31*	(31): The c	enter settin	g = 31		
- 0	Cr-Offset2 of EXT Cr (Pin39)		5 (5.) 50				Ŭ.					
	CXA2150P-4/#13 UBLK Setting-related Controls for ATPD & DCTR			UBLK = 0	P&P & UBLK = 1	Favorite UBLK = 2	UBLK = 3	UBLK = 4	P&P & UBLK = 5	Favorite UBLK = 6	UBLK = 7	Single UBLK = 0
22 ATPD	Auto-pedestal Inflection Point		0~3	0	1	2	3	1	2	3	2	0
	DC Transmission Ratio		0~3	0	1	1	1	2	2	2	3	0

SERVICE DATA LISTS KV-40XBR700

DX1A-2001&2000 SERVICE LIST (#3-1): CXA2150P-1 {Picture Controls: P1}

Device Name: CXA2150AQ { CRT Driver / SONY } / IC201 (A-board) / P/N: 8-752-093-35 (SBorSD#: NA)

Slave Address: 86h

	Register & Name	Control Register Function & Link	Data Type	Data Range		Data I	nitial Sett (32V	ings & '&36V CR		Data]		Comment
					UHF VHF	cv	sv	YPbPr 480i	YPbPr 480p	YPbPr 1080i	P&P	CV: CVideo1~4
0	SBOT	Offset for SBRT		0~(7)~15	7	7	7	7	7	7	7	SV:
1	YOF	Y_OFFSET: DC-offset for Y signal		0~(7)~15	0	0	0	0	0	0	0	SVideo1~3
2	CBOF	CB_OFFSET: DC-offset for Cb signal		0~(31)~63	31	31	31	33	30	31	13	(): Settings at
3	CROF	CR_OFFSET: DC-offset for Cr signal		0~(31)~63	31	31	31	42	36	31	23	center
4	SBRT	SUB_BRIGHT: Sub Bright	Adj.	0~63			2	24 [24]				Adj.:
5	RDRV	R_DRIVE: R output drive	С	0~63				46				Adjusted data
6	GDRV	G_DRIVE: G output drive	Adj.	0~63			3	36 [36]				<u>C</u> :
7		B_DRIVE: B output drive	Adj.	0~63			3	33 [33]				Common data
8	RCUT	R_CUTOFF: R output cutoff	С	0~63				41				
9	GCUT	G_CUTOFF: G output cutoff	Adj.	0~63			11 [11]					Initial Setting
10	BCUT	B_CUTOFF: B output cutoff	Adj.	0~63			2	22 [22]				= [Avg. Data]
					Vi	vid	Standard		Mo	vie	Pro	
11	WBSW	WB_SW: White balance offset on/off		0.1	(0			1		0	
''	MPOM	(Related to UTMP settings)		0, 1	(Co	ool)	(Neut	tral)	(Wa	rm)		
12	SBOF	Offset for SBRT		0~(63)~127	. ,		63	3	6	3	63	
13	RDOF	Offset for RDRV		0~(63)~127			63	3	63	**	63	
14	GDOF	Offset for GDRV		0~(63)~127	6	3	63	3	66	**	63	
15	BDOF	Offset for BDRV		0~(63)~127	6	3	60)	73	**	63	**: The color
16	RCOF	Offset for RCUT		0~(63)~127	6	3	63	3	63	**	63	temperature offset data
17	GCOF	Offset for GCUT		0~(63)~127	6	3	63	3	66	**	63	Ullact udtd
18	BCOF	Offset for BCUT		0~(63)~127	6	3	60)	75	**	63	

Note:

SERVICE DATA LISTS
KV-40XBR700

DX1A-2001&2000 SERVICE LIST (#3-2): CXA2150P-2 {Picture Controls: P2}

Device Name: CXA2150AQ { CRT Driver / SONY } / IC201 (A-board) / P/N: 8-752-093-35 (SBorSD#: NA)

Slave Address: 86h

	Register o & Name	Control Register Function & Link	Data Type	Data Range		[Data Initia (32)	I/Averag V&36V CF		js .		Comment
0	ALBK	PIC_ON: RGB output including AKB reference pulse on/off (Setting = 0 for power on reset) G2 adjustment register setting	С	0, 1	1							
1	RGBS	R_ON/G_ON/B_ON: R/G/B outputs on/off (AKB reference pusle can not be turned on/off.) (0,1/0,1/0,1)	С	0~7	7							
2	BLKB	BLK_BTM: RGB output bottom limit level (Black Limit) (AKB reference pusle DC-voltage)	С	0~3	3							<u>C</u> :
3	LIML	PLIMIT_LEV: Threshold level for excessively high inputs (White Limit	С	0~3	0							Common data
4	PABL	P_ABL: DC-level in RGB output detection for PEAK ABL	С	0~15	15							
5	SABL	S_ABL: S_ABL gain	С	0~3	0							
6	AGNG	AGING_W/AGING_B: AGING_W/AGING_B modes on/off (Set luminance to 80/01IRE flat-field signal.)	О	0~3 (0,1/0,1)	0							
7	AKBO	AKBOFF: Automatic/Manual-Cutoff setting	С	0, 1	0							
					-, -,	HF & :o1~4	YPbPr 480i	YPbPr 480p	YPbPr 1080i	P&P		Video1~4:
8	SYPH	SYNC_PHASE: Hsync delay with respect to Video (100%: H-period)		0~3	(0	0	0	0	0		CVideo1~4 &
9	CLPH	CLP_PHASE: Internal clamp pulse phase (100%: H-period)		0~3	,	3	3	3	3	3		SVideo1~3
10	CLGA	CLP_GATE: Switch for the gated internal clamp pulse with Hsync inp	ut	0, 1	(0	0	0	0	0		
11	JAXS	JAXIS: Color axis switch		0, 1	(0				•	•	
12	BLKO	BLKO: Blanking switch		0, 1	(0						

Note:

SERVICE DATA LISTS
KV-40XBR700

DX1A-2001&2000 SERVICE LIST (#3-3): CXA2150P-3 {Picture Controls: P3} (Part-1/3)

Device Name: CXA2150AQ { CRT Driver / SONY } / IC201 (A-board) / P/N: 8-752-093-35 (SBorSD#: NA)

Slave Address: 86h

D	Control Bordator	D-4-	D-4-		Data Initi	al/Avera	ge Settin	gs (32V&	36V CRTs	·)	
Registe	_ I	Data	Data			Pictu	ıre Mode:	Vivid			Comment
No & Na	e Function & Link	Type	Range	UHF VHF	cv	sv	YPbPr 480i	YPbPr 480p	YPbPr 1080i	P&P	
0 SYS	SYSTEM: Signal bandwidth setting		0~3	1	1	1	1	1	2	2	
1 UVI	L VM_LEV: VM_OUT level	С	0~3	3							.]]
2 VM	O System Micro pin#40		0, 1	0	0	0	0	0	0	0	.]]
3 VM 0	R VM_COR: VM_OUT coring level		0~3	3	3	3	3	3	3	3	.
4 VMI	M VM_LMT: VM_OUT limit level		0~3	3	3	3	3	3	3	3	These settings continue to
5 VM	0 VM_F0: VM_f0		0~3	2	2	2	2	2	2	2	the next page.
6 VM I	L VM_DLY: VM_OUT phase (defined by phase difference from R_OUT	_)	0~3	3	3	3	3	3	1	3	the flext page.
7 SHC	F Offset for USHP = SHOF x 4		0~3	2	2	2	3	3	0	2	<u>CV</u> :
8 SH	SHP_F0: Sharpness circuit f0		0, 1	1	1	1	1	1	0	1	CVideo1~4
9 PR	PRE/OVER: Y signal pre/over-shoot ratio		0~3	3	3	3	1	3	0	3	<u>SV</u> :
10 F1 L	/ SHP_F1: Sharpness for higher f0 (4.2/5.6 MHz @ NORMAL mode)		0~3	0	3	3	3	3	3	3	SVideo1~3
11 CD	P SHP_CD: Sharpness in part of high color saturation		0~3	3	3	3	3	3	3	3	
12 LTI	/ LTI_LEV: Luminance transient improvement (LTI)		0~3	3	3	3	3	3	3	3	<u>C</u> :
13 LTN			0~3	0	0	0	0	0	0	1	Common data
14 CTI			0~3	0	0	0	0	0	2	0	(): Settings at
15 CTI	CTI_MODE: CTI mode setting		0~3	0	0	0	0	0	0	0	center
16 UB 0	F Offset for UBRT (Picture clarity adjustment)		0~(7)~15	11	11	11	11	11	14	11	.]
17 UC	F Offset for UCOL = UCOF x 2 (Picture clarity adjustment)		0~3	3	3	3	3	3	0	3	.1
18 UH	F Offset for UHUE (Picture clarity adjustment)		0~3	2	2	2	2	2	2	2	.1
19 MI	MID enhancement setting		0~15	3	3	3	7	11			

Note:

DX1A-2001&2000 SERVICE LIST (#3-3):	CXA2150P-3	{Picture Controls: P3}	(Part-2/3)
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	Da	ta Initia	l/Avera	ge Settir	ngs (32V	&36V CR	Ts)	Da	ıta Initia	I/Avera	ge Settir	ıgs (32V	&36V CR	Ts)	D	ata Initia	I/Averaç	ge Settir	ngs (32V	&36V CR	Ts)	
Register			Picture	Mode: S	tandard					Pictu	re Mode:	Movie					Pict	ure Mode	: Pro			Note
No & Name	UHF VHF	cv	sv	YPbPr 480i	YPbPr 480p	YPbPr 1080i	P&P	UHF VHF	cv	sv	YPbPr 480i	YPbPr 480p	YPbPr 1080i	P&P	UHF VHF	cv	sv	YPbPr 480i	YPbPr 480p	YPbPr 1080i	P&P	
#0 SYSM (cont.)	1	1	1	1	1	2	2	1	1	1	1	1	2	2	1	1	1	1	1	2	2	
#1 UVML (cont.)	3							0							0							
#2 VMMO (cont.)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
#3 VMCR (cont.)	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
#4 VMLM (cont.)	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
#5 VMF0 (cont.)	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
#6 VMDL (cont.)	1	3	3	3	3	1	3	1	1	1	1	1	1	3	1	1	1	1	1	1	3	
#7 SHOF (cont.)	0	3	3	3	3	0	2	0	3	3	3	3	0	3	0	1	1	1	1	0	1	
#8 SHF0 (cont.)	0	1	1	1	1	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	1	See
#9 PROV (cont.)	3	3	3	1	3	0	3	3	3	3	1	3	0	3	3	3	3	1	3	0	3	next
#10 F1LV (cont.)	0	3	3	3	3	3	3	0	0	0	0	0	0	3	0	0	0	0	0	0	3	page
#11 CDSP (cont.)	3	3	3	3	3	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
#12 LTLV (cont.)	2	2	2	2	2	2	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
#13 LTMD (cont.)	1	1	1	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	0	0	1	
#14 CTLV (cont.)	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
#15 CTMD (cont.)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
#16 UBOF (cont.)	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	
#17 UCOF (cont.)		3	3	3	3	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
#18 UHOF (cont.)	2	2	2	2	2	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
#19 MIDE (cont.)	2	2	2	6	10			1	1	1	5	9			0	0	0	4	8			
Neter			-									-					-					

Note.
The same CXA2150 service data are used for DX1A-2001&2000.

	DX	1 A-200 1	1&2000 \$	SERVIC	E LIST (#3-3): CXA2	150P-3	{Pictur	re Controls: P3} (Part-3/3)
			Data Initia	I/Average S	ettings (32V&36V	CRTs)			
Register No & Name	SNNR=0 (Offset)	SNNR=1 (Offset)	SNNR=2 (Offset)	SNNR=3 (Offset)					Comment
#1 UVML (cont.)	0	0	0	0					
#3 VMCR (cont.)	0	+ 1	+ 2	+ 3					
#10 F1LV (cont.)	0	- 1	- 2	- 3					
#11 CDSP (cont.)	0	0	0	0					
#12 LTLV (cont.)	0	0	0	0					
#14 CTLV (cont.)	0	0	0	0					
#19 MIDE (cont.)	0	0	0	0					
Notes									

Note:

DX1A-2001&2000 SERVICE LIST (#3-4): CXA2150P-4 {Picture Controls: P4} (Part-1/4)

Device Name: CXA2150AQ { CRT Driver / SONY } / IC201 (A-board) / P/N: 8-752-093-35 (SBorSD#: NA) Slave Address: 86h Device Name: CXD2085M { ID-1 Decoder / SONY } / IC3603 (B-board) / P/N: 8-752-395-13 (SD#: S98511B) Slave Address: 40h

	Register o & Name	Control Register Function & Link	Data Type	Data Range		D	ata Initia (32)	ıl/Averag V&36V CF		gs		Comment
					Vi	vid	Stan	dard	Mo	ovie	Pro	1
					4	0V	40	DV		40V		Settings for
0	UPIC	PICTURE: Picture		0~63	6	3	5	0	3	31	31	36V CRTs
1	UBRT	BRIGHT: Brightness		0~63	2	22		:6		28	31	are used for initial
2	UCOL	COLOR: Color		0~63		4		5		33	31	settings.
3	UHUE	HUE: Hue		0~63	3	31	3	1	3	31	31	· ·
		SNNR Setting-related Controls for USHP										This setting continues to
4	USHP	SHARPNESS: Sharpness		0~63	4	-2	4	.8	3	34	31	the next page.
5	UTMP	Color Temperature (0: Warm, 1: Neutral, 2: Cool)		0~2		2		1		0	1	
6	UDCL	DCOL: Dynamic color setting		0~3		2	2	2	:	2	2	
							ure Mode:	Vivid / St	andard / N	/lovie		
						/VHF eo1~4	YPbPr 480i	YPbPr 480p	YPbPr 1080i	Р	&P	These setting
7	AXIS	COL_AXIS: Color matrix setting		0~3		3	3	3	3		3	continue to the next page
<u> </u>	AXIO	OOE_7000. Color matrix setting	1	0 0			_	re Mode:	•			life flext page
						VHF eo1~4	YPbPr 480i	YPbPr 480p	YPbPr 1080i	Р	&P	<u>Video1~4</u> :
		GAMMA/GAMMA_L: RGB output GAMMA correction setting (B _{7~6})		0~7							_	CVideo1~4 & SVideo1~3
8	UGAM	GAMMA L: Slight GAMMA correction on/off (B ₀)		(0~3/0.1)		7	7	7	7		7	Svideo 1~3
_				0~7								
9	AGAM	GAMMA/GAMMA_L (Av Pro user control) Void Data		(0~3/0,1)						T		
		UGAM Setting-related Controls for GSBO, GCOO, GHUO			UGAM = 7	UGAM = 6	UGAM = 5	UGAM = 4	UGAM = 3	UGAM = 2	UGAM = 1	
10	GSBO	Offset for SBRT (8 types of GSBO data based on UGAM values)		0~3	0	0	0	0	0	0	0	
11	GCOO	Offset for UCOL		0~3	0	0	0	0	0	0	0	These setting
12	GHUO	Offset for UHUE		0~3	0	0	0	0	0	0	0	continue to
							Pictu	re Mode:	Vivid			the next page.
						/VHF	YPbPr	YPbPr	YPbPr	Р	&P	
10	LIDL I/	Itam # 15, 10 nock 51 data controls		0~7	Vide	eo1~4 7	480i 7	480p 7	1080i 7		7	
13 14	UBLK ABLK	Item # 15~18 pack FI data controls (Av Pro user control) Void Data		0~7 0~7	0 (Voi	d data)		/			ı	
14	ADLN	UBLK Setting-related Controls for DCTR		0~7	0 (701	u uaia)	-		-			
		DC_TRAN: Y signal DC transmission			—		-		-			
15	DCTR			0~3		3	3	3	3		2	These setting
16	DPIC	(8 types of DCTR data based on UBLK values) DPIC_LEV: Y signal AUTO PEDESTAL level		0~3	—	2	2	2	2		1	continue to the next page.
	DSBO	Offset for SBRT		0~3		<u> </u>	7	7	7		7	(): Settings at
<u>17</u> 18			-			<u>/</u>	1	1	1		1	center
No.		ABL_MODE: ABL mode	<u> </u>	0~3	<u> </u>	<u> </u>					I	0011101

Note:

SERVICE DATA LISTS

Register	D:	ta Initial	/Averac	ge Setting	ıe .	Ι ο	ata Initia	I/Averac	je Setting	ne	l n	ata Initia	/Averag	e Setting	· ·	П
No & Name	D.		/&36V CI	-	,5			V&36V C		y s			/&36V CF		,5	No
SNNR Setting (-Offset) #4 USHP (cont.)	SNNR SNNR = 0 = 1 0 1	SNNR = 2 3	SNNR = 3 4	: Pro												
	UHF/VHF Video1~4	YPbPr 480i	YPbPr 480p	YPbPr 1080i	P&P											
7 AXIS (Cont.)	3	3	3	3	3											
,			Mode: S					re Mode:					ıre Mode			
	U/VHF Video1~4	YPbPr 480i	YPbPr 480p	YPbPr 1080i	P&P	U/VHF Video1~4	YPbPr 480i	YPbPr 480p	YPbPr 1080i	P&P	U/VHF Video1~4	YPbPr 480i	YPbPr 480p	YPbPr 1080i	P&P	
#8 UGAM (Cont.)	2	2	2	2	2	0	0	0	0	0	0	0	0	0	0	
#10 GSBO (cont.) #11 GCOO (cont.) #12 GHUO (cont.)	UGAM = 0 0 0 0	Picture	Mode: S	tandard			Pictu	re Mode:	Movie			Pictu	ıre Mode			
	UHF/VHF Video1~4	YPbPr 480i	YPbPr 480p	YPbPr 1080i	P&P	UHF/VHF Video1~4	YPbPr 480i	YPbPr 480p	YPbPr 1080i	P&P	UHF/VHF Video1~4	YPbPr 480i	YPbPr 480p	YPbPr 1080i	P&P	
13 UBLK (Cont.)	4	4	4	4	4	1	1	1	1	1	0	0	0	0	0]
_	_				_	_				_	_] _
15 DCTR (Cont.)	2	2	2	2	2	1	1	1	1	1	1	1	1	1	1	
16 DPIC (Cont.)	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	n pa
17 DSBO (Cont.)	7	7	7	7	7	7	1 7	7	7	7	7	7	7	7	7	11.

	DX	1 A-200 1	&2000 \$	SERVIC	E LIST (#	#3-4): (CXA21	50P-4 {	[Picture Controls: P4] (Part-3/4)
Register No & Name			Da		erage Settii SV CRTs)	ngs			Comment
	UBLK = 7	UBLK = 6	UBLK = 5	UBLK = 4	UBLK = 3	UBLK = 2	UBLK = 1	UBLK = 0	
#15 DCTR (Cont.)	3	2	2	2	1	1	1	1	
#16 DPIC (Cont.)	2	3	2	1	3	2	1	0	
#17 DSBO (Cont.)	7	7	7	7	7	7	7	7	
#18 ABLM (Cont.)	1	0	0	1	0	0	0	0	
Note: The same CXA2150 serv	vice data are	used for DX	14-2001820	100					

	DX1A-2001&2000 SERVICE LIST (#3-4): CXA2150P-4 {Picture Controls: P4} (Part-4/4)									
	Register Control Register Data Data Data Initial/Average Settings No & Name Function & Link Type Range (32V&36V CRTs)									Comment
19	ABLT	ABL_TH: ABL correct detection Vth control		0~15	0					
					Full	Vcon	np1	Vcon	np2	Full:
20	ABLC	Control of CXA2026 {0Ch DAC0} (*)		0~255	0		6	6		480p/960i
21	EPOF	Offset for UPIC = EPOF x (UPIC/63) (for power save) Void Data		0~31						(4x3)
		ID-1 and P&P Modes								Vcomp1:
22	SPOF	Offset for UPIC = SPOF x (UPIC/64) Data Not Used		0~31	0 (Not used)					480p/960i
					UHF/VHF Video1~4	YPbPr 480i	YPbPr 480p	YPbPr 1080i	P&P	(16x9) Vcomp2:
23	SCON	SUB_CONTRAST: SUB PICTURE		0~15	8	8	6	4	8	1080i
24	CLOF	Offset for UCOL		0~(7)~15	8	10	9	7	8	(16x9)
25	HUOF	Offset for UHUE		0~7~15	4	3	3	3	4	
		CXD2085 Service Controls								(): Settings at
26	IDSW	Switch for activating the selection in #27 DATA	С	0, 1	0					center
					Full	Vcon	np1	Vcon	np2	<u>C</u> :
27	DATA	Selection of geometry-forced vertical compression modes	С	0~3	0	1		2		Common data
Not The		2150 service data are used for DX1A-2001&2000.	-			_	-	_		-

SERVICE DATA LISTS KV-40XBR700

DX1A-2001&2000 SERVICE LIST (#4-1): CXA2150D-1 {Deflection Controls: D1}

Device Name: CXA2150AQ { CRT Driver / SONY } / IC201 (A-board) / P/N: 8-752-093-35 (SBorSD#: NA)

Slave Address: 86h

	Register o & Name	Control Register Function & Link	Data Type	Data Range	Data Initial	Settings & [Average Data] (32V&36V CRTs)	Comment	
					Full	Vcomp1 Vcomp2	Full: 480p/960i (4x3) display	
0	VPOS	V_POSITION: Vertical position (V_DRV siganl DC-bias)		0~(31)~63		26 [26]	Vcomp1: 480p/960i (16x9) display	
1	VSIZ	V_SIZE: Vertical size (V_DRV signal gain)	Adj.	0~(31)~63		19 [19]	Vcomp2: 1080i (16x9) display	
2	VLIN	V_LINEARITY: Vertical linearity (Gain for V_DRV signal secondary component)	Adj.	0~(7)~15		9 [9]	Adi.: Adjusted data	
3	VSCO	S_CORRECTION: Vertical S-correction	Adj.	0~(7)~15		8 [8]	(): Settings at center	
4	VCEN	VSAW0_DCH/VSAW0_DCL: Vertical center adjustment VSAW0_DCH: VSAW0 waveform DC component (high 2-bits) VSAW0_DCL: VSAW0 waveform DC component (low 4-bits)	Adj.	0~(31)~63	31 [31]		VCEN-L(Low bit) VCEN-H(High bit)	
5	VPIN	VSAW0_AMP: Vertical PIN adjustment VSAW0 waveform SAW component amplitude	Adj.	0~(15)~31	15 [15]	15 [Copty1]	[Copy1]: Copy the adjusted data for Full mode.	
6	NSCO	VSAW1_DC: Rotation	Adj.	0~(7)~15	7 [7]		Either 7 or 8 can be used as the average NSCO data.	
7	HTPZ	VSAW1_AMP: Horizontal trapezoid	Adj.	0~(15)~31		15 [15]	(If both of them are not good,	
8	ZOOM	ZOOM_SW: Zoom switch		0, 1	0	0	please feedback to / check with	
9	APSW	ASP_SW: Aspect switch		0, 1	1	1 0	the DY attachment process.)	
10	ASPT	V_ASPECT: Aspect ratio	Adj.	0~63	47	47 47		
11	SCRL	V_SCROLL: Vertical scroll	Adj.	0~(31)~63	31	32 32		
12		UP_VLIN: Upper vertical linearity		0~15	0	0		
13	LVLN	LO_VLIN: Lower vertical linearity		0~15	0	Ō		

Note:

SERVICE DATA LISTS
KV-40XBR700

DX1A-2001&2000 SERVICE LIST (#4-2): CXA2150D-2 {Deflection Controls: D2}

Device Name: CXA2150AQ { CRT Driver / SONY } / IC201 (A-board) / P/N: 8-752-093-35 (SBorSD#: NA)

Slave Address: 86h

Register No & Name		Control Register Function & Link	Data Type	Data Range	Data Initial	Settings & [Av (32V&36V CRTs)		Comment	
					Full	Vcomp1	Vcomp2	Full: 480p/960i (4x3) display	
0	HCNT	HC_PARA_DC: Horizontal center	Adj.	0~(31)~63		31 [31]		Vcomp1: 480p/960i (16x9) display	
1	HPOS	H_POSITION: Horizontal position	Adj.	0~(31)~63	3	-	31 [Adj6steps]	Vcomp2: 1080i (16x9) display	
2	HSIZ	H SIZE: Horizontal size	Adj.	0~(31)~63	[3	45 [45]	[[Au]osteps]	(): Settings at center	
3	SLIN	MP_PARA_DC: Horizontal S-correction	Adj.	0~15		3 [3]		Adi . Adiustad data	
4	MPIN	MP_PARA_AMP: Horizontal middle pin		0~15		7		Adj.: Adjusted data [Adj6steps]:	
5	PIN	PIN_AMP: Horizontal pin	Adj.	0~(31)~63		35 [35]		The adj. data for Vcomp2 mode	
6	UCP	UP_CPIN: Upper corner pin	Adj.	0~(31)~63			= The adj. data for Full/Vcomp1		
7	LCP	LO_CPIN: Lower corner pin	Adj.	0~(31)~63		42 [42]		modes - 6 steps	
8	UXCG	UP_UCG: Upper extra corner pin gain		0~3		0		Data (32Vor36V):	
9	LXCG	LO_UCG: Lower extra corner pin gain		0~3		0		The data for 36V are used as the	
10		UP_UCP: Upper extra corner pin position		0~3		2		Initial & CBA data.	
11		LO_UCP: Lower extra corner pin postion		0~3		2			
12		UC_POL: Extra corner pin polarity		0, 1		0		From the system micro (V 2.0),	
13		PIN_PHASE: Pin phase		0~(31)~63		15 [15]		the deflection control-related initial settings are the same as	
14		AFC_ANGLE: AFC angle		0~(31)~63		31 [31]		their average data.	
	LANG	HC_PARA_PHASE: Linearity angle		0~(31)~63		31 [31]		anon avorago data.	
		AFC_BOW: AFC bow		0~(31)~63		31 [31]			
17	LBOW	HC_PARA_AMP: Linearity bow	Adj.	0~(31)~63		31 [31]			
18	CPY1	Copy Function 1: (Set CPY1=1, then press MUTE + Enter.) Copy all CXA2150D-2 data for Full mode to Vcomp1&2	Micro	0, 1		0		For engineering design use only	

Note:

SERVICE DATA LISTS
KV-40XBR700

DX1A-2001&2000 SERVICE LIST (#4-3): CXA2150D-3 {Deflection Controls: D3}

Device Name: CXA2150AQ { CRT Driver / SONY } / IC201 (A-board) / P/N: 8-752-093-35 (SBorSD#: NA)

Slave Address: 86h

Register No & Name	Control Register Function & Link	Data Type	Data Range	Data	Data Initial/Average Settings (32V&36V CRTs)		Comment	
				Full	Full Vcomp1		Full: 480p/960i (4x3) display	
0 HBLK	HBLK_SW: Horizontal blanking switch		0, 1		1		Vcomp1: 480p/960i (16x9) display	
1 LBLK	LEFT_BLK: Left blanking		0~63	4	43	50	<u>Vcomp2</u> : 1080i (16x9) display	
2 RBLK	RIGHT_BLK: Right blanking		0~63	2	29			
3 VBLK	VBLK_SW: Vertical blanking switch		0, 1	1	1 1			
4 TBLK	UP_BLK: Top blanking		0~(7)~15	3	8	12	(): Settings at center	
5 BBLK	LO_BLK: Bottom blanking		0~(7)~15	8	13	13		
6 VCMP	V_COMP: Vertical compensation		0~15	0	0	0		
7 HCMP	H_COMP: Horizontal compensation		0~15	0	()		
8 ACMP	AFC_COMP: AFC compensation		0~7	0	0 0			
9 PCMP	PIN_COMP: Pin compensation		0~7	0	()		
10 AFCM	AFC_MODE: AFC loop gain		0~3		3	2		
11 VFRQ	V_FREQ: Vertical frequency		0~3		1			
12 VON	V_ON: Vertical drive on		0, 1		1			
13 JUMP	JMP_SW: Reference pulse jump swtich		0, 1	0		1		
14 VDJP	VDRV_SW: Vertical drive jump switch		0, 1	0	0	1		
15 VDST	RST_SW: Vertical drive start switch		0, 1	0	0	1		
16 EWDC	EW_DC: Pin DC level shift		0, 1	0	()		
17 AKBT	AKBTIM: AKB timing		0~31	20	20	10		

Note:

SERVICE DATA LISTS KV-40XBR700

DX1A-2001&2000 SERVICE LIST (#5): CXA2151Q

Device Name: CXA2151Q { Component I/F & Sync Separation / SONY } / IC3001 (B-board) / P/N: 8-752-093-84 (SD#: S00302B)

Slave Address: 84h

	Register o & Name	Control Register Function & Link	Data Type	Data Range	Data Initial/Average Settings (32V&36V CRTs)			Comment
					480i (15.75 KHz)	480p (31.50 KHz)	1080i (33.75 KHz)	<u>Video5&6</u> :
0	MTRX	MAT_OUT: Selection of color matrix conversion types	Micro	0~3	0	0	1	YPbPr-480i/480p/1080i inputs Sub: 480i input from the sub-channel
1	GAIN	GAIN_SEL: Selection of output signals for SELYOUT, SELCBOUT, SELCROUT	С	0~3	0			Full: 480p/960i (4x3) display
2		YGAIN, CBGAIN, CRGAIN: The gain control of SELYOUT, SELCBOUT, & SELCROUT	С	0~15	9			Vcomp1: 480p/960i (16x9) display Vcomp2: 1080i (16x9) display
3		V_TC: Setting of Vsync separation time constant	С	0~3	1			
4	HWID	H_WIDTH: Setting of the output pulsewidth of SELHOUT	С	0~3	1			C: Common data
					Video5	Video6	Sub	
5	HSEP	HSEP_SEL: Setting for the sync separation system		0, 1	0	0	0	
6	TEST	TEST: Test mode selection (for device tests)	С	0, 1	0			
7	FRGB	The forced RGB selection (for tests) {0: MAT_OUT = MTRX (#0), 1: MAT_OUT = MTRX (#3)}	С	0, 1	0			
					Full	Vcomp1	Vcomp2	
8	HMSK	Hsync masking in vertical retrace		0, 1		1	0	

Note:

SERVICE DATA LISTS KV-40XBR700

DX1A-2001&2000 SERVICE LIST (#6): D-CONV / CXA8070

Device Name: CXA8070AP { DY-Convergence Control / SONY } / IC5513 (D-board) / P/N: 8-759-595-52 (SB#: V1718)

Slave Address: DEh

	Register o & Name	Control Register Function & Link	Data Type	Data Range	Data Initial Settings & [Average Data] (32V&36V CRTs)			Comment
					Full	Vcomp1	Vcomp2	
0	SBHS	DC AMP3: DC shift	Adj.	0~63	31 [31]	31	[31]	Full: 480p/960i (4x3) display mode
1	YBWU	VCA9: Upper Y-bow	Adj.	0~63	31 [31]		[31]	Vcomp1: 480p/960i (4x3) display mode
2	YBWL	VCA10: Lower Y-bow	Adj.	0~63	31 [31]	31	[31]	Vcomp2: 1080i (16x9) display mode
3	RSAP	DC AMP2: Right H-AMP	Adj.	0~63	31 [31]	31	[31]	
4	RUBW	VCA5: Right upper bow	Adj.	0~63	31 [31]	31	[31]	Adj.: Adjusted data
5	RLBW	VCA6: Right lower bow	Adj.	0~63	31 [31]	31	[31]	
6	LSAP	DC AMP1: Left H-AMP	Adj.	0~63	31 [31]	31	[31]	From the system micro (V 2.0),
7	LUBW	VCA1: Left upper bow	Adj.	0~63	31 [31]	31	[31]	the deflection control-related initial settings are the same as their average data.
8	LLBW	VCA2: Left lower bow	Adj.	0~63	31 [31]	31	[31]	are the same as their average data.
9	CADJ	DC AMP4: Offset adjustment (ADJ)	Adj.	0~63		48 [48]		
10	CPY2	Copy Function 2: (Set CPY2=1, then press MUTE + Enter.)	Micro	0, 1		0		For engineering design use only

Note:

SERVICE DATA LISTS KV-40XBR700

DX1A-2001&2000 SERVICE LIST (#7): CXA2026AS

Device Name: CXA2026AS { DQP Control / SONY } / IC5511 (D-board) / P/N: 8-752-074-64 (SD#: S95610B)

Slave Address: 8Eh

	Register o & Name	Control Register Function & Link	Data Type	Data Range	Data Initial	Settings & [Ave (32V&36V CRTs)	erage Data]	Comment
					Full	Vcomp1	Vcomp2	Full: 480p/960i (4x3) display mode
0	DFON	SW0: DF on/off switch	С	0, 1	0			Vcomp1: 480p/960i (16x9) display mode
1	DQP	PWM: DQP phase	Adj.	0~63	23 [23]	23 [23]		Vcomp2: 1080i (16x9) display mode
2	DF	DAC1: DF phase	Adj.	0~63	25 [25]	25 [25]		<u>C</u> : Common data
3	DQPD	H.AMP: DQP dc-level	Adj.	0~63	34 [12] 34 [12]			Adj.: Adjusted data
4	QPDV	U.CBOW, L.CBOW: DQP dc-level vertical modulation		0~63				U.CBOW = QPDV + DVS
5	DVS	U.CBOW, L.CBOW: DQP dc-level tilt		0~(3)~7	0 0			L.CBOW = QPDV - DVS
6	QPDY	U.MBH,L.MBH: DQP dc-level at top & bottom areas		0~63	15	15		(): Settings at center
7	DQPA	DC SHIFT: DQP amplitude	Adj.	0~63	13 [10]	13 [10]	13 [10]	Data (36V) is used as Initial/CBA data. From the system micro (V 2.0), most deflection control-related initial settings are the same as their average data.
8	QPAV	U.YBOW, LYBOW: DQP amplitude vertical modulation		0~63	38 34			U.YBOW = QPAV + AVS
9	AVS	U.YBOW, LYBOW: DQP amplitude tilt		0~7	3 3			L.YBOW = QPAV - AVS
10	NORM	SW1:		0, 1	0	0		
11		Copy Function 3: (Set CPY3=1, then press MUTE + Enter.)	Micro	0, 1	0	0		For engineering design use only
12	200V	H.DUTY, H.TILT: 200V regulator adjustment	Adj.	0~63	31 [31]			

Note:

The same CXA2026 service data is used for DX1A-2001&2000.

DX1A-2001&2000 SERVICE LIST (#8): Audio Processing (AP) / BH3868AFS

Device Name: BH3868AFS { Audio Processor / ROHM } / IC7001 (A-board) / P/N: 8-759-678-92 (SBorSD#: NA)

Slave Address: 82h

	Register & Name	Control Register Function & Link	Data Type	Data Range	Data Initial/Average Setting (32V&36V CRTs)	Comment
0	SVOL	Volume: Offset for Volume		0~3	0	
1	SBAL	Balance: Offset for Balance		0~(3)~7	7	(): Settings at center
2	SBAS	Bass: Offset for Bass		0~(3)~7	10	
3	STRE	Treble: Offset for Treble		0~(3)~7	3	
4		BBE lowpass filter		0~15	6	
5	BBHP	BBE highpass filter		0~15	7	
6	SREF	Surround effect		0~7	11	
7	AGC	Auto gain control		0, 1	Ō	
8	BBE	BBE on/off		0, 1	1	

Note:

The same AP service data is used for DX1A-2001&2000.

DX1A-2001&2000 SERVICE LIST (#9): TruSurround (TRUS) / NJM2180

Device Name: NJM2180M { TruSurround 3D-Audio Processor / JRC } / IC4101 (S-board) / P/N: 8-759-686-15 (SB#: V9072)

Device Control: Controlled via CXA1315M (Audio Control D/A, IC4103/S-board, Slave Address: 48h) / P/N: 8-752-059-23 (SD#: S88Z45B)

1	Register lo & Name	Control Register Function & Link		Data Range	Data Initial/Average Setting (32V&36V CRTs)	Comment
0	TS	TruSurround effect selection		0~3	2	C: Common data
1	DMY1	Dummy data (No functions)	С	0~255	0	DMY1 is used to fulfil the minimum requirement of 2 control items in each service control category.

Note:

The same TRUS service data is used for DX1A-2001&2000.

SERVICE DATA LISTS KV-40XBR700

DX1A-2001* SERVICE LIST (#10): MID1 (Common Data)

Device Name: CXD9509AQ { MID-XA / Fujitsu & SONY } / IC3408 (B-board) / P/N: 8-759-672-57 (SBorSD#: NA)

Slave Address: 2Eh { Controlled through MID-XA Micro (IC3090/B-board, Slave Address: 64h) / P/N: 6-800-050-01 (SB#: V4216) }

MID-XA Micro (MASK type): MB94918RPF-G-137-BND, MID-XA Software: Version 12/08/00, (P/N: 6-800-050-01)

	Register & Name	Control Register Function & Link	Register Name (Software)	Data Type	Data Range	Data Initial/Average (32V/36V/40V CR		Comment
Ħ	- Ca Haine	Tunction & Link	(ooitware)	Турс	Range	MID Mode: Al	,	
						(Single & P&P & Favorite)		
0	DHPH	Horizontal phase of the active display area	d_h_phase	С	0~255	91		C: Common data
1	DVPH	Vertical phase of the active display area	d_v_phase	С	0~63	20		
2	DHAR	Horizontal size of the active display area	d_h_area	С	0~255	240		
3	DVAR	Vertical size of the active display area	d_v_area	С	0~255	135		
4	DHPW	Horizontal pulse width	d_h_pwidth	С	0~63	27		
5	DVPW	Vertical pulse width	d_v_pwidth	С	0~7	7		
6	DYCD	Delay of YC signal output	d_yc_delay	С	0~63	2		
7	DYSD	Delay of YS signal output	d_ys_delay	С	0~7	1		
						MID Mode: Signle &	Favorite	
						Single Single 480i&p 1080i	Favorite	
8	MDHP	Horizontal position of the main picture	m_dsp_hpos		0~255	33 12		
9		Vertical position of the main picture	m_dsp_vpos		0~255	32 8 14		
10	MDHS	Horizontal size of the main picture	m_dsp_hsiz		0~255	230 158		
11	MDVS	Vertical size of the main picture	m_dsp_vsiz		0~255	120 135 106		
						MID Mode: P&P & Favorite		
12	MLHP	(Horizontal position of the multi pictures)			0~255	54		
13	MLVP	(Vertical position of the multi pictures)			0~255	31		
						MID Mode: Favorite		
14	SDHP		s_dsp_hpos		0~255	172		
15		Vertical position of the sub picture	s_dsp_vpos		0~255	14		
16	SDHS	Horizontal size of the sub picture	s_dsp_hsiz		0~255	61		
17	SDVS	Vertical size of the sub picture	s_dsp_vsiz		0~255	41		
						MID Mode: All (Single & P&P & Favorite)		
18	DPSW	Switch of display output PLL	dsp pll sw	С	0. 1	0		0: MUST be used in DX1A-2001, 1: Used in DX1A-2000
		Model selection 0 (0: 16x9, 1: 4x3)	<u> - - - - - </u>	C	0, 1	0		,

Note:

* These MID1 settings are used for DX1A-2001 ONLY. The DPSW setting was changed from 1 in DX1A-2000 to 0 in DX1A-2001.

DX1A-2001&2000 SERVICE LIST (#11): MID2 (DRC-in Data)

Device Name: CXD9509AQ { MID-XA / Fujitsu & SONY } / IC3408 (B-board) / P/N: 8-759-672-57 (SBorSD#: NA)

Slave Address: 2Eh { Controlled through MID-XA Micro (IC3090/B-board, Slave Address: 64h) / P/N: 6-800-050-01 (SB#: V4216) }

MID-XA Micro (MASK type): MB94918RPF-G-137-BND, MID-XA Software: Version 12/08/00, (P/N: 6-800-050-01)

	Register No & Name Function & Link			Data Type	Data Range	Data Initial/Average Setting (32V&36V CRTs)						
						MID Mod	e: Single	MID Me	ode: P&P & F	MID Mode: Freeze		
						YC	YPbPr	YC	YPbPr	YC	YC	YPbPr
11						480i	480i	480i	480i	480i-(R)	480i	480i
0	DRHP	Horizontal position of the active display area (DRC-in)	drc_hactv_pos		0~255	120	116	131	129	137	138	136
1	DRHS	Hsize of the active display area (DRC-in)	drc_hactv_siz		0~255	174	174	167	167	168	165	165
2	DRVP	Vposition of the active display area (DRC-in)	drc_vactv_pos		0~63	38	38	53	53	53	53	53
3	DRVS	Vertical size of the active display area (DRC-in)	drc_vactv_siz		0~255	120	120	112	112	112	112	112

Note:

The same MID2 service data is used for DX1A-2001&2000.

DX1A-2001&2000 SERVICE LIST (#12): MID3 (VDO-in Data) (Part-1/2)

Device Name: CXD9509AQ { MID-XA / Fujitsu & SONY } / IC3408 (B-board) / P/N: 8-759-672-57 (SBorSD#: NA)

Slave Address: 2Eh { Controlled through MID-XA Micro (IC3090/B-board, Slave Address: 64h) / P/N: 6-800-050-01 (SB#: V4216) }

MID-XA Micro (MASK type): MB94918RPF-G-137-BND, MID-XA Software: Version 12/08/00, (P/N: 6-800-050-01)

	Register o & Name	Control Register Function & Link	Register Name (Software)	Data Type	Data Range	Dat	a Initial/Av (32V&36	-	ting	Comment
							MID Mod	e: Single		
							YPbPr 480P		Dummy 480i	Dummy-480i settings are used for No Signal cases.
0	VDHP	Horizontal position of the active display area (VDO-in)	vdo_hactv_pos		0~255		122		179	101 140 Olgital 64363.
1	VDHS	Horizontal pixel size of the active display area (VDO-in)	vdo_hactv_pos		0~255		159		199	These settings continue to the
2	VDVE	Vertical even position of the active display area (VDO-in)	vdo_vactv_evn		0~63	39 24			next page.	
3	VDVS	Vertical line size of the active display area (VDO-in)	vdo_vactv_pos		0~255		129		56	
						YC 480i	YPbPr 480P	YPbPr 1080i	Dummy 480i	
4	VDVO	Vertical odd position of the active display area (VDO-in)	vdo_vactv_odd		0~3	0	0	0	0	
5	VCPO	Clamp pulse output timing (VDO-in)	vdo_clp_pos		0~255	95	70	40	90	
6	VCWD	Clamp pulse width (VDO-in)	vdo_clp_wdt		0~7	3	3	3	3	
7	VYCD	Analog input YC delay (VDO-in)	vdo_yc_delay		0~63	0	0	0	0	
							YPbPr 480P	YPbPr 1080i		
8	VSTP	PD stop line count of external PLL (VDO-in)	vdo_pll_stop		0~255		119	160		
9	VSTT	PD start line count of external PLL (VDO-in)	vdo_pll_strt		0~15		7	0		
						(\$	MID Mode: All (Single & P&P & Favorite)			
10	VHSC	Horizontal sync cycle (VDO-in)	vdo_hsync_cyc		0~255	130				
T NI -				•	•			•	<u> </u>	

Note:

The same MID3 service data is used for DX1A-2001&2000.

	DX1A-2001&2000 SERVICE LIST (#12): MID3 (VDO-in Data) (Part-2/2)											
Register No & Name			al Setting V CRTs)		Data Initial Setting (32V&36V CRTs)			Comment				
	M	IID Mode: P	&P / Favori	te	MID	Mode: FRE	EZE					
	YC 480i	YPbPr 480P	YPbPr 1080i	Dummy 480i	YPbPr 480P			Dummy-480i settings are used for No Signal cases.				
#0 VDHP (cont.)	197	127	91	179	131	98	179					
#1 VDHS (cont.)	219	154	151	199	153	149	199					
#2 VDVE (cont.)	24	53	37	24	53	37	24					
#3 VDVS (cont.)	3 VDVS (cont.) 56 112 126 56 112 126 56				112	126	56					

Note:

The same MID3 service data is used for DX1A-2001&2000.

DX1A-2001&2000 SERVICE LIST (#13): MID5 (Picture Data: MIDE) (Part-1/4)

Device Name: CXD9509AQ { MID-XA / Fujitsu & SONY } / IC3408 (B-board) / P/N: 8-759-672-57 (SBorSD#: NA)

Slave Address: 2Eh { Controlled through MID-XA Micro (IC3090/B-board, Slave Address: 64h) / P/N: 6-800-050-01 (SB#: V4216) }

MID-XA Micro (MASK type): MB94918RPF-G-137-BND, MID-XA Software: Version 12/08/00, (P/N: 6-800-050-01)

	Register o & Name	Control Register Function & Link	Register Name (Software)	Data Type	Data Range	Dat		verage Set 6V CRTs)	ting	Dat		verage Set SV CRTs)	ting	
		Settings for P&P (Main)					UHF/VHF	& CVideo						
		Settings for Far (Main)				Pro	Movie	Standard	Vivid	Pro	Movie	Standard	Vivid	
0	POP	Selection of service data tables (Table #: 0~15)			0~15	0	1	2	3	4	5	6	7	
1	MHLY	Y coefficient code of Horizontal LPF (M)	m_hlpf_ycoef		0~3	1	1	1	1	1	1	1	1	
2	MHLC	C coefficient code of Horizontal LPF (M)	m_hlpf_ccoef		0~3	3	3	3	3	3	3	3	3	
3	MVLY	Y coefficient code of Vertical LPF (M)	m_vlpf_ycoef		0~3	0	0	0	0	0	0	0	0	
4	MVLC	C coefficient code of Vertical LPF (M)	m_vlpf_ccoef		0~3	0	0	0	0	0	0	0	0	
5	MHYR	Y coreing code of horizontal enhancement (M)	m_henh_ycore	!	0~3	0	0	0	0	0	0	0	0	
6	MHYL	Y cliping code of horizontal enhancement (M)	m_henh_yclip		0~3	1	1	1	1	1	1	1	1	See
7	MHYE	Y level code of horizontal enhancement (M)	m_henh_yenh		0~7	4	0	0	0	3	0	0	0	the
8	MHYO	Y coefficient code of horizontal enhancement (N	m_henh_ycof		0, 1	1	1	1	1	1	1	1	1	next
9	MHCR	C coreing code of horizontal enhancement (M)	m_henh_ccore	!	0~3	0	0	0	0	0	0	0	0	page.
10	MHCL	C cliping code of horizontal enhancement (M)	m_henh_cclip		0~3	1	1	1	1	1	1	1	1	
11	MHCE	C level code of horizontal enhancement (M)	m_henh_cenh		0~7	0	0	0	0	0	0	0	0	
12	MHCO	C coefficient code of horizontal enhancement (N	m_henh_ccof		0, 1	1	1	1	1	1	1	1	1	
13	MVYR	Y coreing code of vertical enhancement (M)	m_venh_ycore		0~3	0	0	0	0	0	0	2	2	
14	MVYL	Y cliping code of vertical enhancement (M)	m_venh_yclip		0~3	1	1	1	1	1	1	1	1	
15	MVYE	Y level code of vertical enhancement (M)	m_venh_yenh		0~7	0	0	0	0	0	0	2	5	
16	MVCR	C coreing code of vertical enhancement (M)	m_venh_ccore		0~3	0	0	0	0	0	0	0	0	
17	MVCL	C cliping code of vertical enhancement (M)	m_venh_cclip		0~3	1	1	1	1	1	1	1	1	
18	MVCE	C level code of vertical enhancement (M)	m_venh_cenh		0~7	0	0	0	0	0	0	0	0	

Note:

The same MID5 service data is used for DX1A-2001&2000.

SERVICE DATA LISTS
KV-40XBR700

Register No & Name	Dat		verage Set SV CRTs)	ting	Dat		verage Sett SV CRTs)	ting	Comment
		YPbP	r-480p			YPbP	r-1080i		
	Pro	Movie	Standard	Vivid	Pro	Movie	Standard	Vivid	
#0 POP (cont.)	8	9	10	11	12	13	14	15	
#1 MHLY (cont.)	1	1	1	1	1	1	1	1	
#2 MHLC (cont.)	3	3	3	3	3	3	3	3	
#3 MVLY (cont.)	0	0	0	0	0	0	0	0	
#4 MVLC (cont.)	0	0	0	0	0	0	0	0	
#5 MHYR (cont.)	0	0	0	0	0	0	0	0	
#6 MHYL (cont.)	1	1	1	1	1	1	1	1	
#7 MHYE (cont.)	4	0	0	0	4	0	0	0	
#8 MHYO (cont.)	1	1	1	1	1	1	1	1	
#9 MHCR (cont.)	0	0	0	0	0	0	0	0	
#10 MHCL (cont.)	1	1	1	1	1	1	1	1	
#11 MHCE (cont.)	0	0	0	0	0	0	0	0	
#12 MHCO (cont.)	1	1	1	1	1	1	1	1	
#13 MVYR (cont.)	0	0	2	2	0	0	0	0	
#14 MVYL (cont.)	1	1	1	1	1	1	1	1	
#15 MVYE (cont.)	0	0	2	5	0	0	0	0	
#16 MVCR (cont.)	0	0	0	0	0	0	0	0	
#17 MVCL (cont.)	1	1	1	1	1	1	1	1	
#18 MVCE (cont.)	0	0	0	0	0	0	0	0	

Note:

The same MID5 service data are used for DX1A-2001&2000.

SERVICE DATA LISTS
KV-40XBR700

DX1A-2001&2000 SERVICE LIST (#13): MID5 (Picture Data: MIDE) (Part-3/4)

	Register o.&Name	Control Register Function & Link	Register Name (Software)	Data Type	Data Range	Data		verage Sett SV CRTs)	ting	Data		verage Set	ting	
		Settings for P&P (Sub)			UHF/VHF & CV									
		octanigs for i di (odb)				Pro	Movie	Standard	Vivid	Pro	Movie	Standard	Vivid	
0	POP	Selection of service data tables (Table #: 0~15)			0~15	0	1	2	3	4	5	6	7	ı I I I I I
19	SHLY	Y coefficient code of Horizontal LPF (S)	s_hlpf_ycoef		0~7	0	0	0	0	0	0	0	0	
20	SHLC	C coefficient code of Horizontal LPF (S)	s_hlpf_ccoef		0~7	0	0	0	0	0	0	0	0	
21	SVLY	Y coefficient code of Vertical LPF (S)	s_vlpf_ycoef		0~7	0	0	0	0	0	0	0	0	
22	SVLC	C coefficient code of Vertical LPF (S)	s_vlpf_ccoef		0~7	0	0	0	0	0	0	0	0	
23	SHYR	Y coreing code of horizontal enhancement (S)	s_henh_ycore		0~3	0	0	0	0	0	0	0	0	
24	SHYL	Y cliping code of horizontal enhancement (S)	s_henh_yclip		0~3	0	0	0	0	0	0	0	0	
25	SHYE	Y level code of horizontal enhancement (S)	s_henh_yenh		0~7	0	0	0	0	0	0	0	0	See
26	SHYO	Y coefficient code of horizontal enhancement (S	s_henh_ycof		0, 1	0	0	0	0	0	0	0	0	the next
27	SHCR	C coreing code of horizontal enhancement (S)	s_henh_ccore		0~3	0	0	0	0	0	0	0	0	page.
28	SHCL	C cliping code of horizontal enhancement (S)	s_henh_cclip		0~3	0	0	0	0	0	0	0	0	pago.
29	SHCE	C level code of horizontal enhancement (S)	s_henh_cenh		0~7	0	0	0	0	0	0	0	0	
30	SHCO	C coefficient code of horizontal enhancement (S	s_henh_ccof		0, 1	0	0	0	0	0	0	0	0	
31	SVYR	Y coreing code of vertical enhancement (S)	s_venh_ycore		0~3	0	0	0	0	0	0	0	0	
32	SVYL	Y cliping code of vertical enhancement (S)	s_venh_yclip		0~3	0	0	0	0	0	0	0	0	
33	SVYE	Y level code of vertical enhancement (S)	s_venh_yenh		0~7	0	0	0	0	0	0	0	0	
34	SVCR	C coreing code of vertical enhancement (S)	s_venh_ccore		0~3	0	0	0	0	0	0	0	0	
35	SVCL	C cliping code of vertical enhancement (S)	s_venh_cclip		0~3	0	0	0	0	0	0	0	0	
36	SVCE	C level code of vertical enhancement (S)	s_venh_cenh		0~7	0	0	0	0	0	0	0	0	

Note:

The same MID5 service data is used for DX1A-2001&2000.

DX1A-2001&2000 SERVICE LIST (#13):	MID5 (Picture Data: MIDE	(Part-4/4)
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Register No.&Name	Dat		verage Sett 6V CRTs)	ting	Data	Data Initial/Average Setting (32V&36V CRTs)			Comment
		YPbP	r-480p			YPbP	r-1080i		
	Pro	Movie	Standard	Vivid	Pro	Movie	Standard	Vivid	
#0 POP (cont.)	8	9	10	11	12	13	14	15	
#19 SHLY (cont.)	0	0	0	0	0	0	0	0	
#20 SHLC (cont.)		0	0	0	0	0	0	0	
#21 SVLY (cont.)	0	0	0	0	0	0	0	0	
#22 SVLC (cont.)	0	0	0	0	0	0	0	0	
#23 SHYR (cont.)	0	0	0	0	0	0	0	0	
#24 SHYL (cont.)	0	0	0	0	0	0	0	0	
#25 SHYE (cont.)	0	0	0	0	0	0	0	0	
#26 SHYO (cont.)	0	0	0	0	0	0	0	0	
#27 SHCR (cont.)	0	0	0	0	0	0	0	0	
#28 SHCL (cont.)	0	0	0	0	0	0	0	0	
#29 SHCE (cont.)	0	0	0	0	0	0	0	0	
#30 SHCO (cont.)	0	0	0	0	0	0	0	0	
#31 SVYR (cont.)	0	0	0	0	0	0	0	0	
#32 SVYL (cont.)	0	0	0	0	0	0	0	0	
#33 SVYE (cont.)	0	0	0	0	0	0	0	0	
#34 SVCR (cont.)	0	0	0	0	0	0	0	0	
#35 SVCL (cont.)	0	0	0	0	0	0	0	0	
#36 SVCE (cont.)	0	0	0	0	0	0	0	0	

DX1A-2001* SERVICE LIST (#14):	On-Screen Display (OSD)

Device Name: M306V2ME-153FP (V1.0) { System Micro (MASK type) / Mitsubishi } / IC701 (A-board)

Slave Address: 60h

The same MID5 service data are used for DX1A-2001&2000.

System Micro (MASK type): M306V2ME-153FP, Sys-Software: Version 1.0, P/N: 6-800-051-01 (SB#: V9091)

,								
Register No & Name		Control Register Function & Link		Data Range	Data Initial/Average Setting (32V&36V CRTs)	Comment		
0	HPOS	OSD horizontal position	С	0~255	23	C: Common data		
1	HPOF	Horizontal position for Favorite mode	С	0~255	33			
2	VPOS	OSD vertical position	С	0~255	5			
3	VPOT	Vertical position for P&P (Twin) mode	С	0~255	32			

Note:

Note:

* This OSD settings are used for DX1A-2001 ONLY. (DX1A-2000 uses two OSD settings based on two versions of system micros.)

SERVICE DATA LISTS KV-40XBR700

DX1A-2001&2000 SERVICE LIST (#15): SNNR

Related Control Devices:

mPD64082 { 3D-Comb / NEC } / IC3501 (BC-board) / Slave Address: B8h

CXA2103Q { Chroma Decoder / SONY } / IC3048 (B-board) / Slave Address: 9Ah (Main)

CXA2150Q { CRT Driver / SONY } / IC201 (A-board) / Slave Address: 86h

	Register o & Name	Control Register Function & Link	Data Type	Data Range	Da	ata Initial/Av 32V&36	verage Setti	ng	Comment
0	SNNR	SNNR data setting		0~3	0				İ
1	SNFX	Selection of SNNR data settings; 0: Set SNNR automatically according to WSLT value (read data)		0, 1	0				<u>C</u> : ComMon data
						/SLT Data / TI			
2	WSLT	Noise level detection data thretholds for SNNR data (read data	ta)	0~255	0~30			127~255	
		SNNR data used as the (-) offset settings			SNN	R Settings Ba (- Offs	ased on WSL et Data)	. Data	
		SNNR = 0/1/2/3 @ WSLT £ 0/31/63/127, respectively		0~3	0	1	2	3	
3	CPFG	Related to 3D-COMB (mPD64082) / #19 YPFG settings			0	1	2	3	
4	CPFT	Related to 3D-COMB (mPD64082) / #18 YPFT settings			0	0	0	0	
		SNNR data used as the direct settings							
5	CCOR	Related to 3D-COMB (mPD64082) / #20 YHCO settings			0	1	1	1	
6	CHCG	Related to 3D-COMB (mPD64082) / #21 YHCG settings			1	1	1	1	
		SNNR data used as the (-) offset settings							
7	CAPG	Related to 3D-COMB (mPD64082) / #16 VAPG settings			0	0	0	0	
8	3SHP	Related to CXA2103 / #6 SHAP settings			0	1	2	3	
9	MIDD	Related to CXA2150P-3 / #19 MIDE settings			0	1	2	3	
10	5SHP	Related to CXA2150P-4 / #4 USHP settings			0	1	3	4	
11	5YF1	Related to CXA2150P-3 / #10 F1LV settings			0	1	2	3	
12		Related to CXA2150P-3 / #11 CDSP settings			0	0	0	0	
13		Related to CXA2150P-3 / #12 LTLV settings			0	0	0	0	
14	5CTI	Related to CXA2150P-3 / #14 CTLV settings			0	0	0	0	
15	5VML	Related to CXA2150P-3 / #1 UVML settings			0	0	0	0	
		SNNR data used as the (+) offset settings			SNN	R Settings Ba (+ Offs	ased on WSL et Data)	Data	
16	5VMC	Related to CXA2150P-3 / #3 VMCR settings			0	+ 1	+ 2	+ 3	

Note:

The same SNNR service data is used for DX1A-2001&2000.

Please refer to the part numbers and SBorSD numbers given in the service list for these devices.

DX1A-2001&2000 SERVICE LIST (#16): ID-1 Detection (ID1)

Device Name: CXD2085M { ID-1 Decoder / SONY } / IC3603 (B-board) / P/N: 8-752-395-13 (SD#: S98511B)

Slave Address: 40h

Register No & Name		Control Register Function & Link	Data Type	_	Data Initial/Average Setting (32V&36V CRTs)	Comment
C	XJGL	XJGLK: Setting for memorizing or not the ID-1 detection status when the VTR in Fast Forward (FF) or Rewind (REW) mode	С	0, 1	0	<u>C</u> : Common data
1	LNJI	LNJ1: Setting for the multi/single-line ID-1 detection	С	0, 1	0	

Note:

The same ID1 service data is used for DX1A-2001&2000.

Other service controls related to CXD2085 (IDSW & DATA) are lised in Service List (CXA2150P-4) for easier engineering adjustment.

DX1A-2001&2000 SERVICE LIST (#17): Closed Caption Display & Parental Control (CCD&VCHIP)

Device Name: CXP85840A-039Q { CCD&Vchip Micro (MASK type) / SONY } / IC3602 (Main) & IC3601 (Sub) (B-board) / P/N: 8-752-916-40 (SD#: S97739B)

Slave Address: 68h (Main) & 6Ch (Sub) CCD&Vchip Micro Software: Version 2.14

Register No & Name		Control Register Function & Link	Data Type	Data Range	Data Initial/Average Setting (32V&36V CRTs)	Comment
0	HPRM	Horizontal position of CCD (Main)	С	0~255	46	C: Common data
1	HPRS	Horizontal position of CCD (Sub)	С	0~255	46	
2	RND	OSD rounding control	C	0, 1	1	
3	CCDI	Interuption control	С	0~7	3	
4	CRIP	CRI count & parity count	C	0~7	4	
5	CRIT	Charge/Discharge timing control for slice voltage level	C	0, 1	0	0: MASK-type micro, 1: OTP-type micro
6	CHMK	Horizontal mask width	С	0~63	42	
7	FPOL	Field polarity selection	O	0, 1	1	
8	LANG		O	0~3	0	
9	DATA	Switch for CCD service/test data	С	0, 1	0	
10	VCHIP	Selection of Vchip controls	С	0, 1	0	

Note:

The same CCD&VCHIP service data is used for DX1A-2001&2000.

DX1A-2001&2000 SERVICE LIST (#18): OPTIONS (OP)

Device Name: M306V2ME-153FP (V1.0) { System Micro (MASK type) / Mitsubishi } / IC701 (A-board)

Slave Address: 60h

System Micro (MASK type): M306V2ME-153FP, Sys-Software: Version 1.0, P/N: 6-800-051-01 (SB#: V9091)

Register No & Name	Control Register Function & Link	Data Type	Data Range	Data Initial/Average Setting (32V&36V CRTs)	Comment
0 DLY1	AC-RLY to MAIN-RLY timing = DLY1 x 50 ms	С	0~15	4	C: Common data
1 DLY2	Power-On Mute timing = DLY2 x 50 ms	С	0~31	12	
2 DLY3	DGC-RLY to MAIN-RLY timing = DLY3 x 50 ms	С	0~15	7	
3 RAMW	RAM monitor on/off	С	0, 1	Ō	

Note:

The same OP service data is used for DX1A-2001&2000.

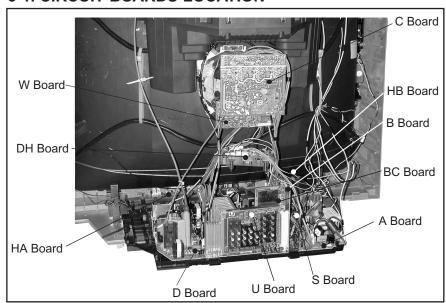
	DX1A-2001* SERVICE LIST (#19): IDENTIFICATION (ID)								
	Device Name: M306V2ME-153FP (V1.0) { System Micro (MASK type) / Mitsubishi } / IC701 (A-board) Slave Address: 60h								
Sy	stem Mic	ro (MASK type): M306V2ME-153FP, Sy	s-Soft	ware: Ve	ersion 1.0, P/N	: 6-800-051-01 (SB#: V9091)			
	Register Control Register Data Data Comment No & Name Function & Link Type Range								
	Shipping Destination-related Settings				KV-38DRC2 KV-38DRC2C				
0	ID0	Selection of OSD languages & color syste	ms	0~255	25				
1	ID1	Selection of composite & s-video inputs		0~255	127				
2	ID2	Selection of audio-related controls		0~255	255				
3	ID3	Selection of basic system settings		0~255	202				
4	ID4	Selection of basic system settings		0~255	251				
5	ID5	Selection of advanced system settings		0~255	177				
6	ID6	Selection of sub picture-related settings		0~255	54				
7	7 ID7 Selection of some reserved settings 0~255 88								
Not	e:				-				

* These ID settings are used for DX1A-2001 ONLY. (DX1A-2000 uses different ID settings.)

The system micro name, software&patch versions, and the status of NVM devices are displayed only when in this service catergory (#19): ID.

SECTION 5: DIAGRAMS

5-1. CIRCUIT BOARDS LOCATION



Circled numbers are waveform references.

The components identified by
in this basic schematic diagram have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be necessary, replace only with the value originally used (Refer to Safety Related Adjustments on page 18).

When replacing components identified by , make the necessary adjustments as indicated. If the results do not meet the specified value, change the component identified by M and repeat the adjustment until the specified value is achieved.

When replacing the parts listed in the table below, it is important to perform the related adjustments.

5-2. PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS

All capacitors are in μF unless otherwise noted. pF : $\mu \mu F$ 50WV or less are not indicated except for electrolytics and tantalums.

All electrolytics are in 50V unless otherwise specified.

All resistors are in ohms. K = 1000, M = 1000K.

Indication of resistance, which does not have one for rating electrical power, is as follows:

Pitch: 5mm

Rating electrical power:

 $^{1/}_{4}$ W, $^{1/}_{4}$ W in resistance, $^{1/}_{10}$ W and $^{1/}_{8}$ W in chip resistance.

: nonflammable resistor.

: fusible resistor.

 Δ : internal component.

: panel designation and adjustment for repair.

All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

Readings are taken with a color-bar signal input.

Readings are taken with a 10M digital multimeter.

Voltages are DC with respect to ground unless otherwise noted.

Voltage variations may be noted due to normal production tolerances.

All voltages are in V.

S: Measurement impossibillity.

: signal path. (RF)

The components identified by shading and 🗥 symbol are critical for safety. Replace only with part number specified.

The symbol indicates a fast operating fuse and is displayed on the component side of the board. Replace only with fuse of the same rating as marked.

Les composants identifies par un trame et une marque 🗥 sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

Le symbole indique une fusible a action rapide. Doit etre remplace par une fusible de meme yaleur, comme maque.

Part Replaced (☑)	Adjustment (►)
D BOARD: IC6503, IC8001, IC8003, IC8004, D8004, D8014, R8016, R8021, R8028, R8041, R8042, R8044, R8072, R8073, R8074, R8077, R8078, R8080, R8081, R8082, R8091, R8095	D BOARD : RV8001, RV8002

REFERENCE INFORMATION

RESISTOR

: RN METAL FILM SOL ID : RC

: FPRD NONFLAMMABLE CARBON NONFLAMMABLE FUSIBLE

: RW NONFLAMMABLE WIREWOUND : RS NONFLAMMABLE METAL OXIDE : RB NONFLAMMABLE CEMENT

ADJUSTMENT RESISTOR : 💥

CAPACITOR

: TA **TANTALUM** STYROL : PS

: PP **POLYPROPYLENE** : PT **MYLAR**

: MPS **METALIZED POLYESTER**

METALIZED POLYPROPYLENE : MPP

: ALB **BIPOLAR**

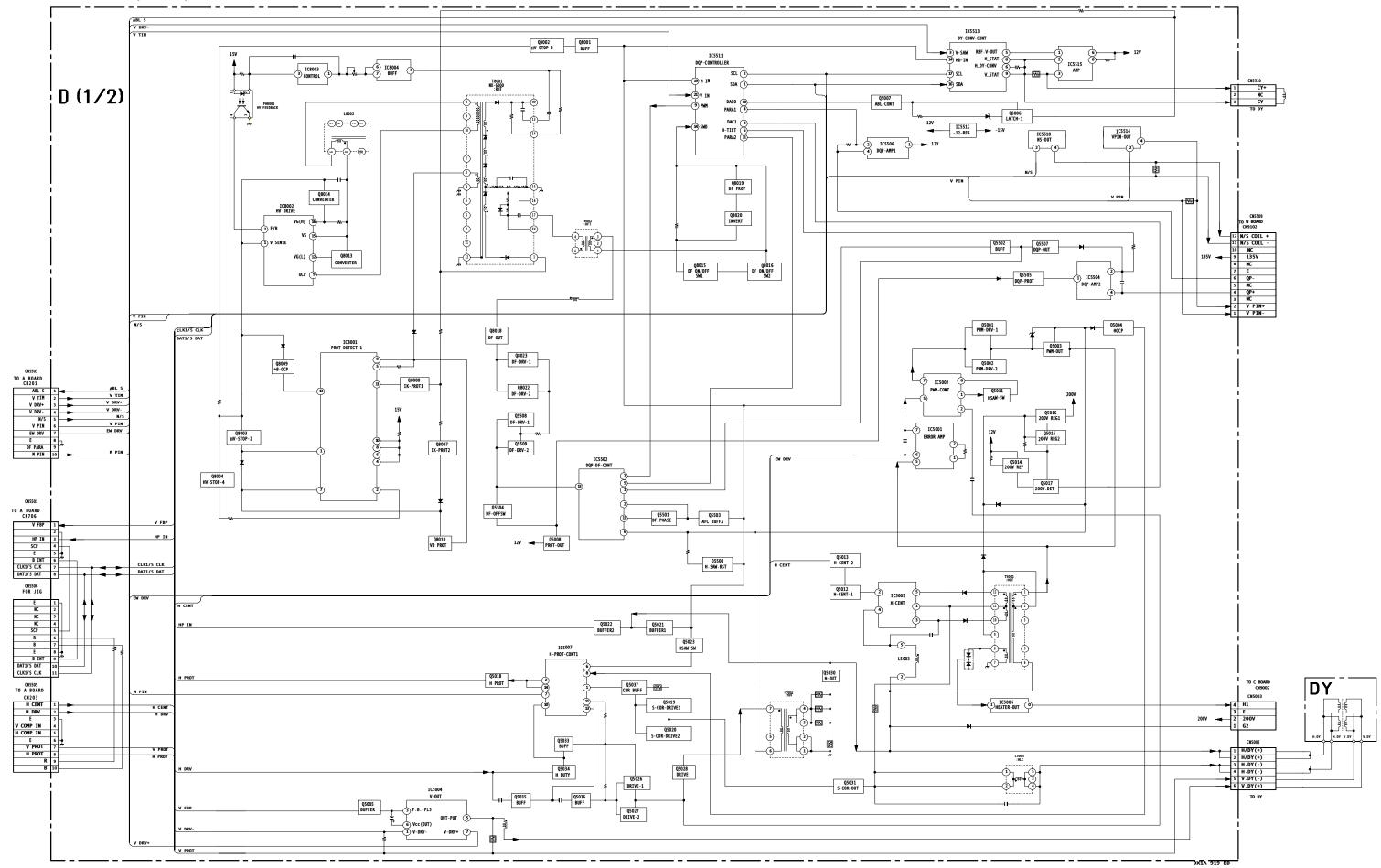
· AI T **HIGH TEMPERATURE**

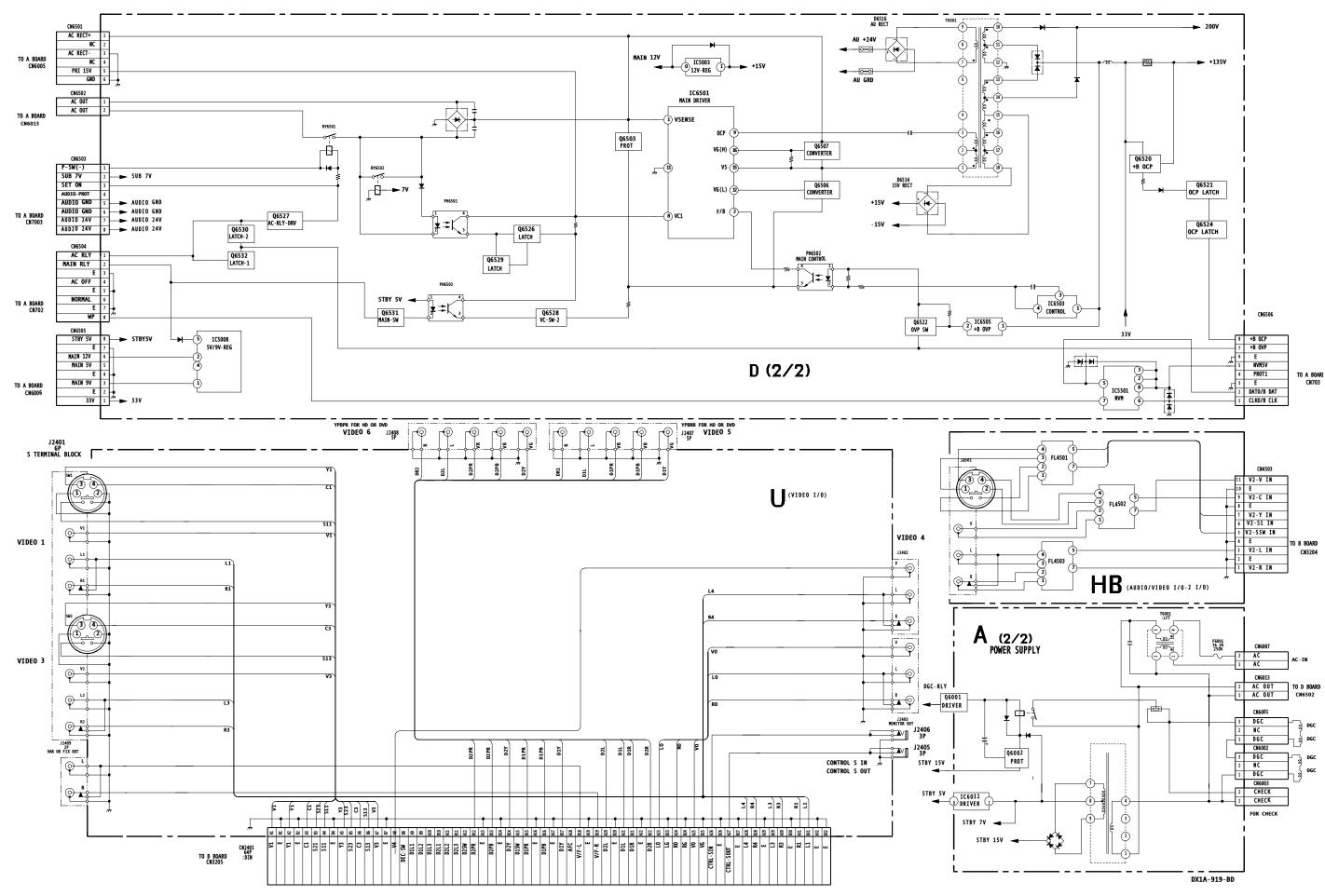
HIGH RIPPLE : ALR

COII

: LF-8L MICRO INDUCTOR

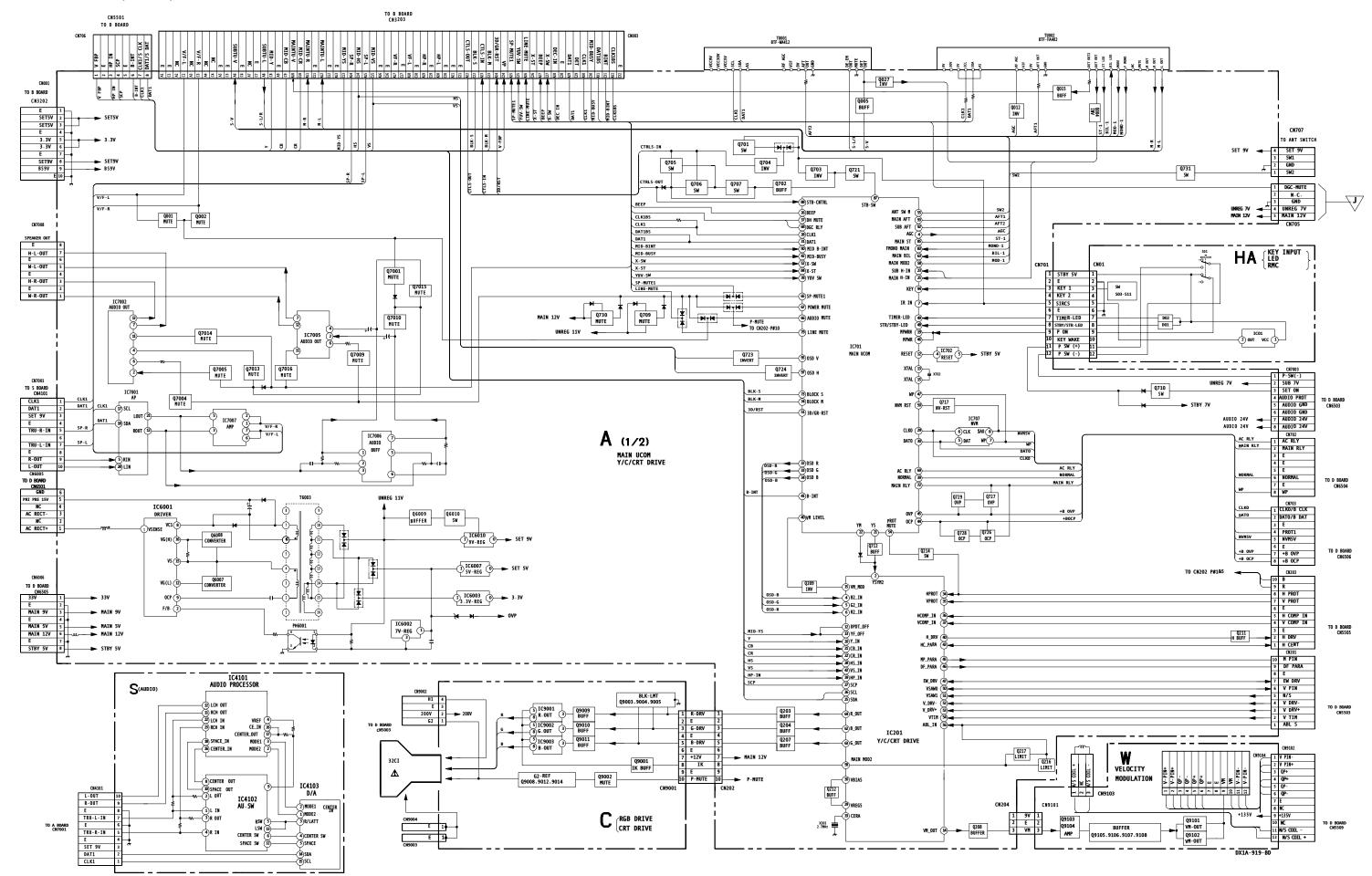
BLOCK DIAGRAM (1 OF 5)

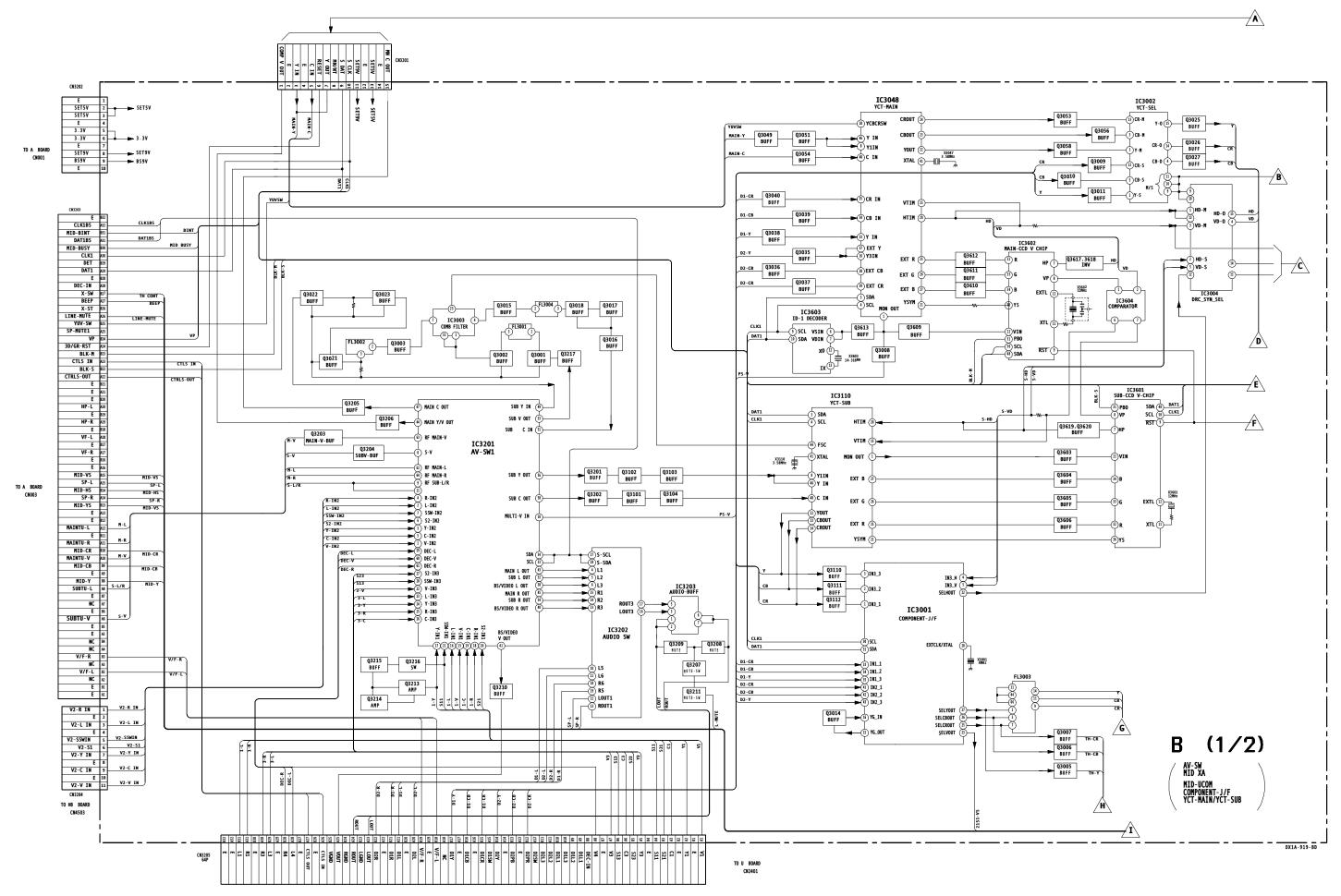




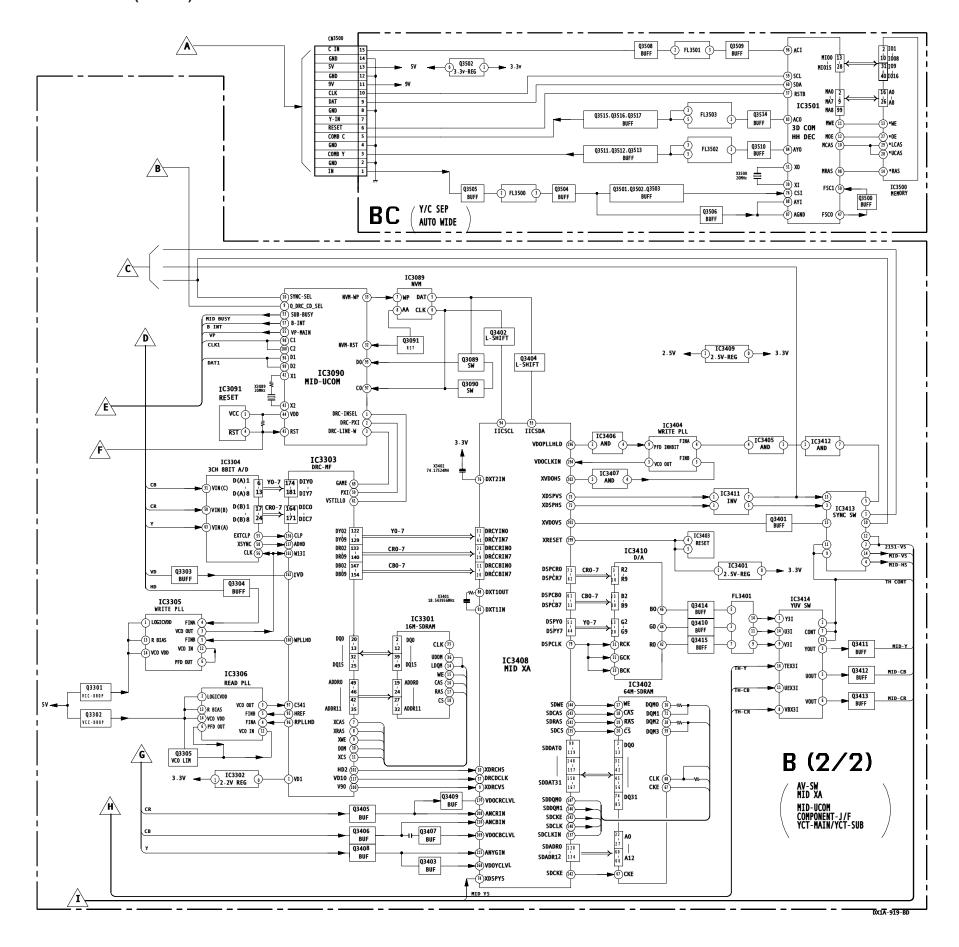
BLOCK DIAGRAM (3 OF 5)

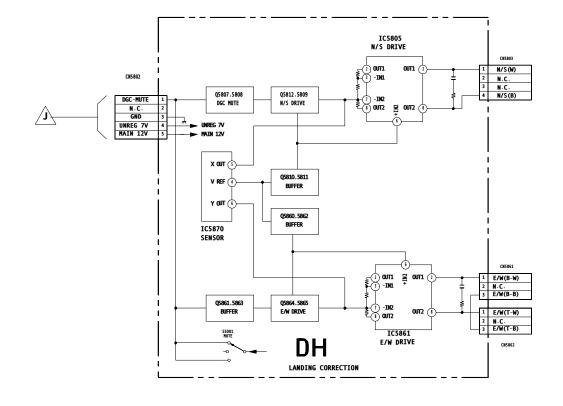
KV-40XBR700

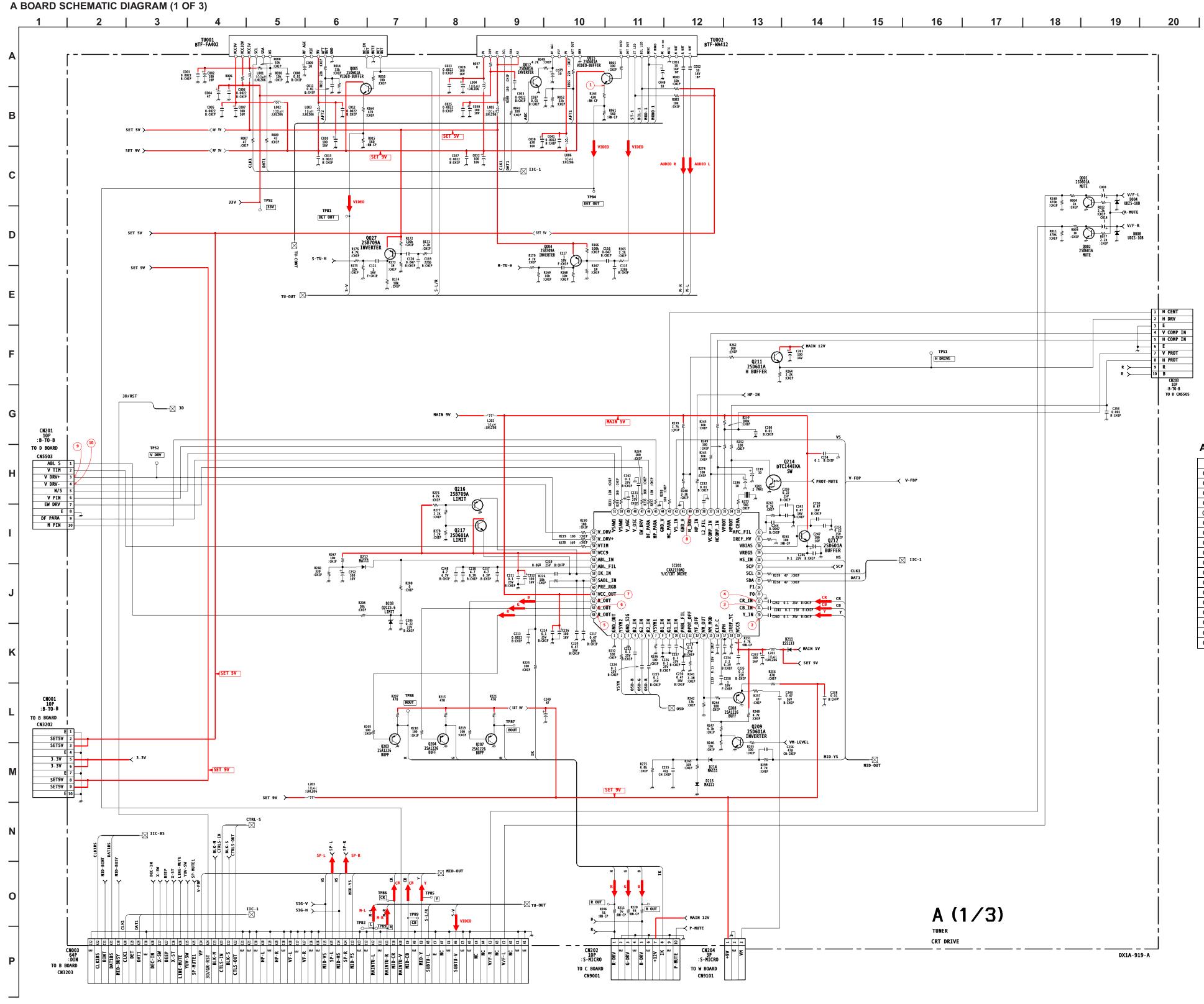




BLOCK DIAGRAM (5 OF 5)
KV-40XBR700

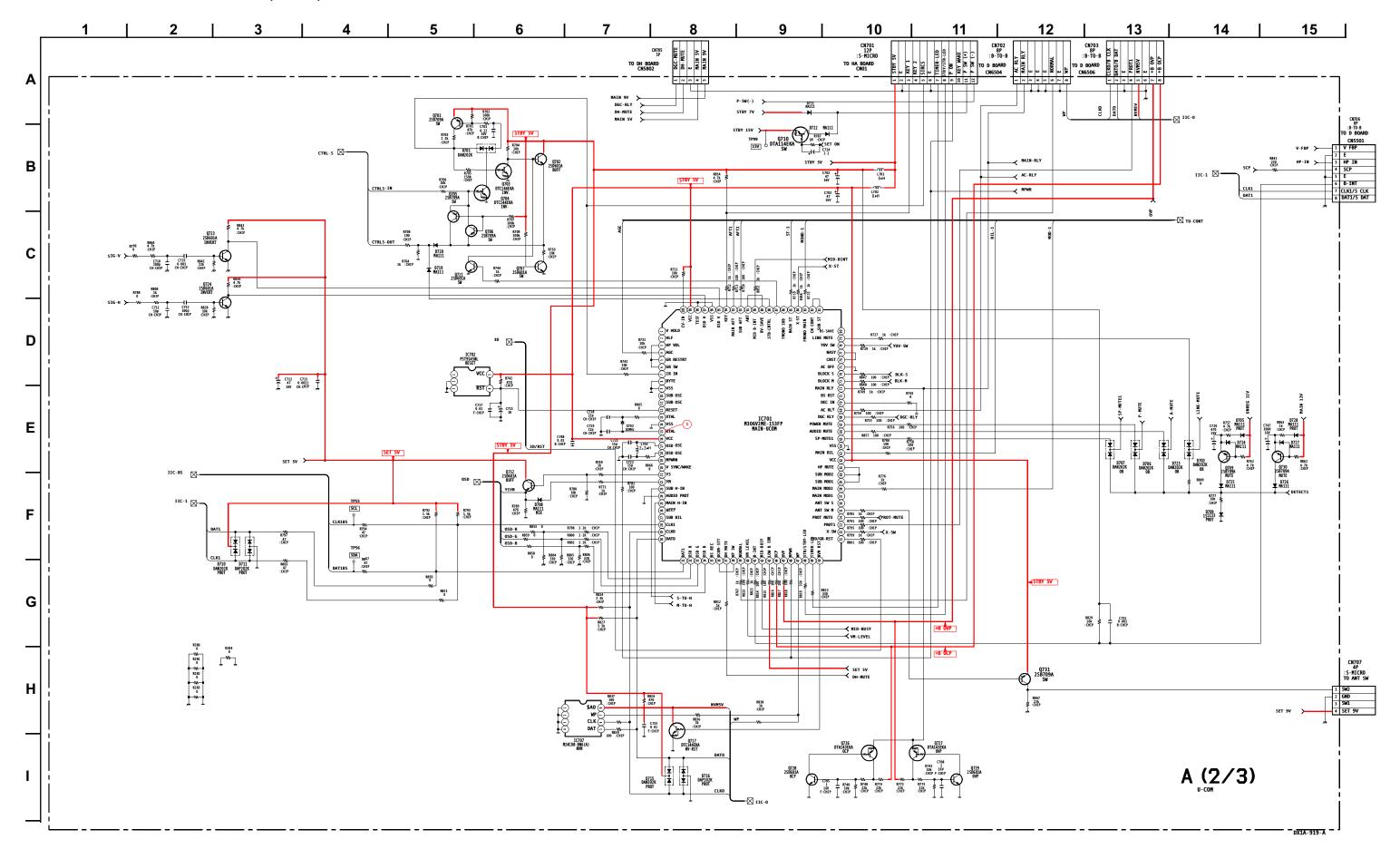




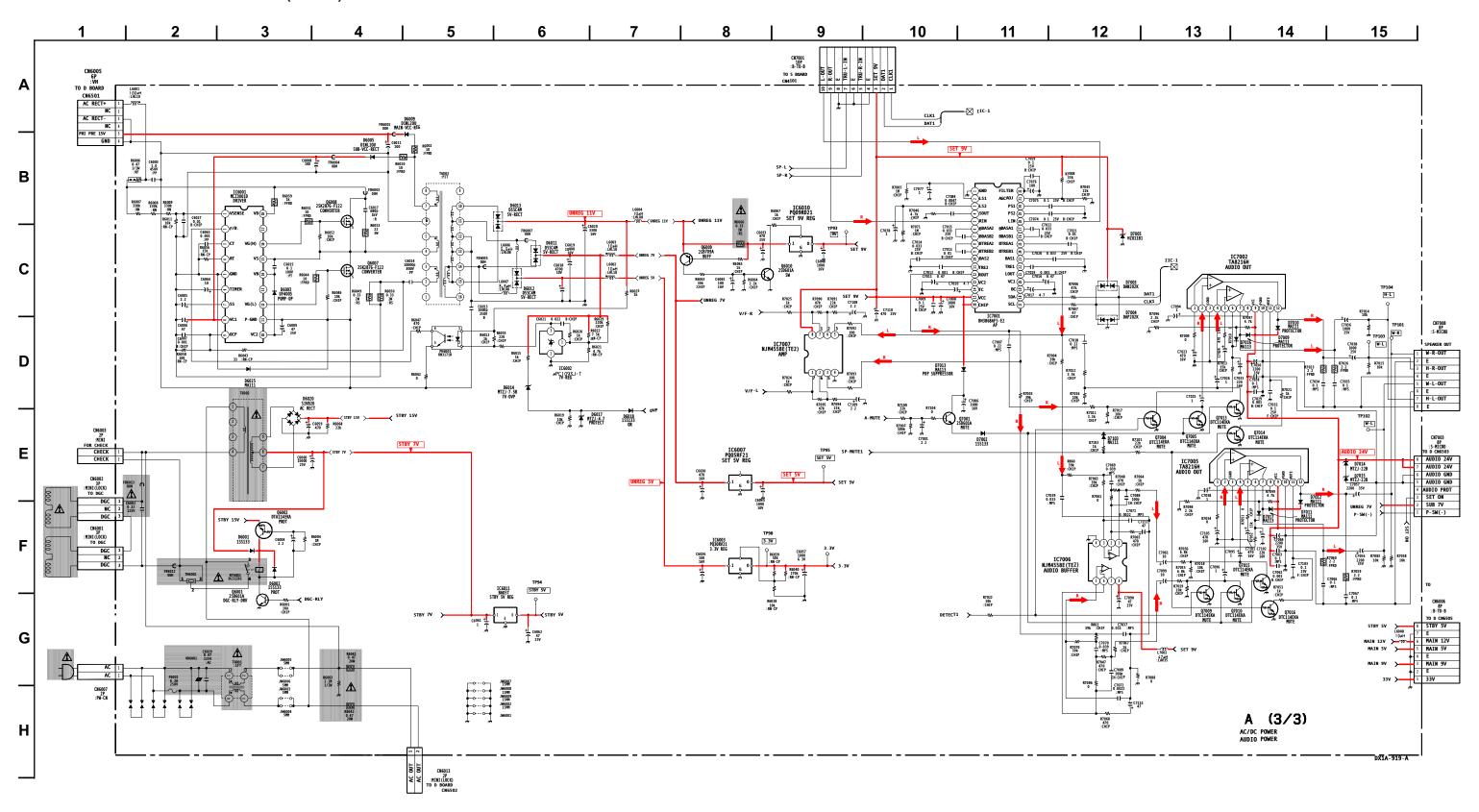


A BOARD TRANSISTOR VOLTAGE LIST

	В	С	Е		В	С	Е		В	С	E
Q001	0.4	0.0	GND	Q702	0.1	5.0	0.0	Q731	0.0	0.0	5.0
Q002	0.4	0.0	GND	Q703	4.6	5.0	GND	Q6001	0.0	23.9	GND
Q004	4.6	1.1	5.0	Q704	0.0	4.4	GND	Q6002	26.3	24.0	26.3
Q005	4.3	9.0	3.6	Q705	5.0	0.0	0.0	Q6009	10.3	0.0	10.4
QO12	0.1	7.5	GND	Q706	5.0	0.0	0.0	Q6010	0.0	2.4	GND
Q015	6.2	9.0	5.5	Q707	0.5	0.0	GND	Q7001	0.3	8.8	0.0
Q027	4.5	0.9	5.0	Q709	10.4	0.7	10.2	Q7004	0.3	8.0	GND
Q203	2.3	GND	3.2	Q710	25.8	0.0	26.4	Q7005	0.0	0.0	GND
Q204	2.5	GND	3.2	Q712	0.0	5.0	0.0	Q7009	0.3	8.0	GND
Q207	2.3	GND	3.2	Q717	0.0	5.0	GND	Q7010	0.0	0.0	GND
Q208	2.3	GND	3.2	Q721	0.0	0.0	GND	Q7013	0.0	0.0	GND
Q209	0.0	2.2	GND	Q723	0.2	4.6	GND	Q7014	0.0	4.1	GND
Q211	2.8	11.5	2.3	Q724	0.5	4.6	GND	Q7015	0.0	0.0	GND
Q212	5.6	9.0	5.0	Q726	4.6	0.1	4.6	Q7016	0.0	4.2	GND
Q214	0.0	0.0	GND	Q727	4.6	0.1	4.6		D	G	S
Q216	4.5	GND	3.9	Q728	0.1	4.6	GND	Q6007	150.4	4.7	0.0
Q217	2.2	8.7	3.9	Q729	0.1	4.6	GND	Q6008	303.0	154.6	150.0
Q701	4.7	4.7	5.0	Q730	10.4	0.7	10.2			All voltage	s are in V.



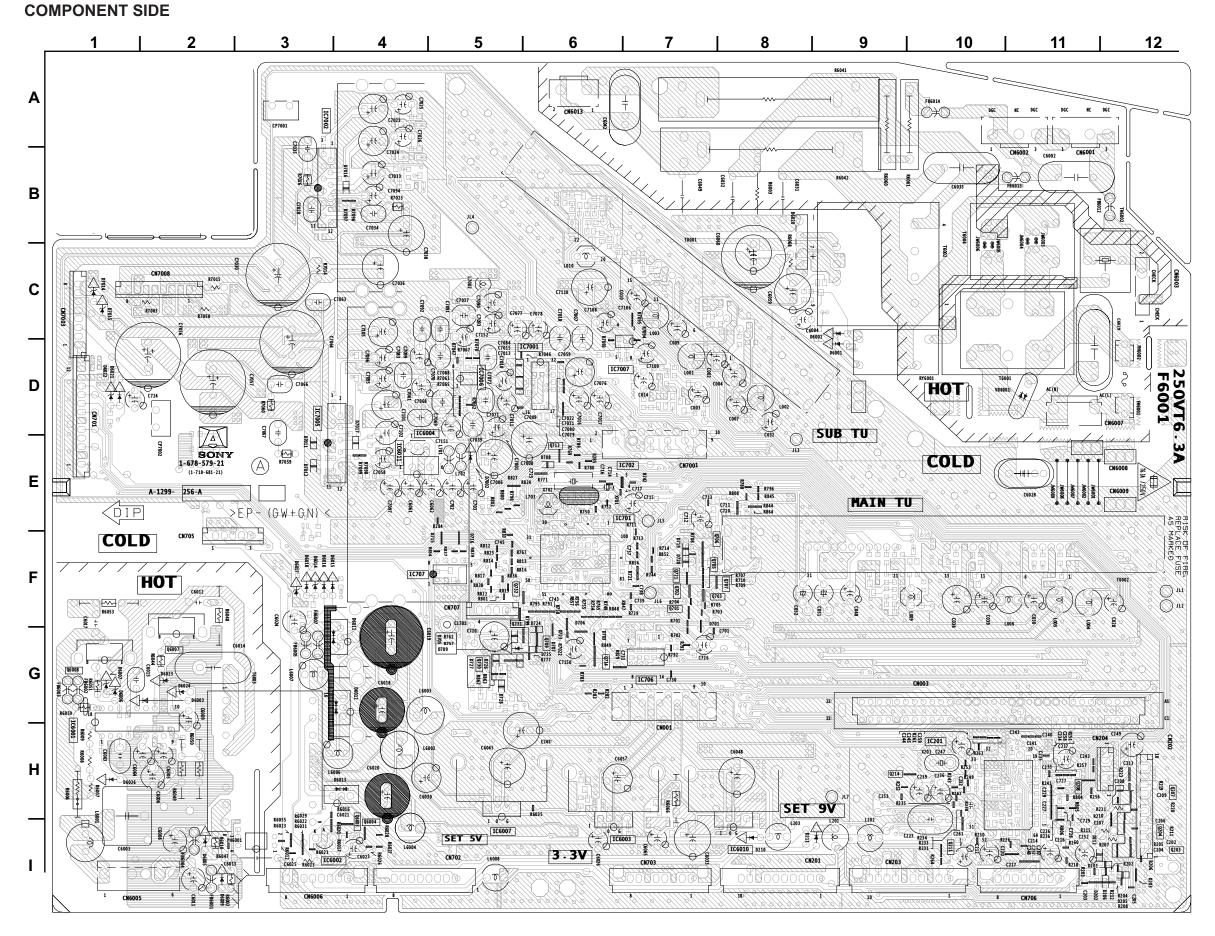
A BOARD SCHEMATIC DIAGRAM (3 OF 3)



CRYSTAL X201 H-10

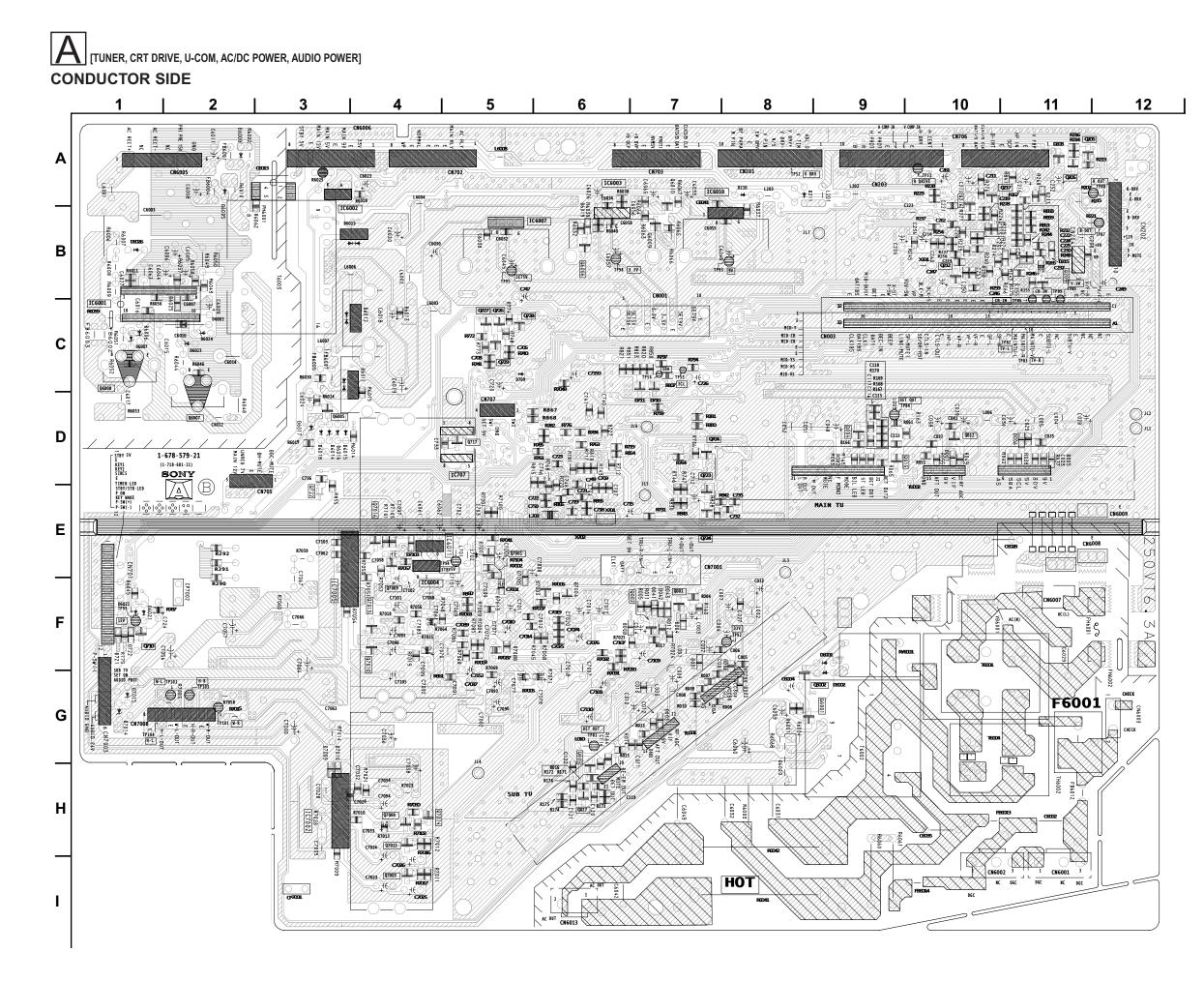
E-6

X702



A BOARD LOCATOR LIST (COMPONENT SIDE)

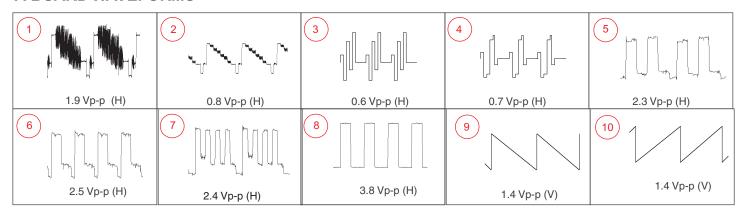
`		,					
DIO	DE	IC	;				
D203	I-12	IC201	H-10				
D211	I-8	IC701	E-6				
D212	H-8	IC702	E-6				
D701	D-4	IC707	F-4				
D703	F-6	IC6001	G-1				
D705	F-4	IC6002	I-4				
D706	F-6	IC6003	I-7				
D707	G-6	IC6007	H-5				
D708	E-6	IC6010	I-8				
D709	G-5	IC6011	E-4				
D715	E-4	IC7001	D-6				
D716	E-5	IC7002	A-3				
D719	F-7	IC7005	D-3				
D720	F-7	IC7006	D-5				
D723	F-6	IC7007	D-6				
D724	F-5	TRANS	ISTOR				
D725	G-6	Q203	I-12				
D726	G-5	Q204	I-12				
D727	G-5	Q207	H-12				
D728	G-5	Q208	H-11				
D6001	C-9	Q211	I-10				
D6002	C-8	Q214	H-9				
D6003	G-2	Q701	F-7				
D6005	I-2	Q702	F-7				
D6009	I-2	Q703	F-7				
D6011	F-4	Q705	F-7				
D6012	G-4	Q706	F-7				
D6013	H-4	Q707	F-7				
D6014	F-3	Q709	G-6				
D6017	F-3	Q712	D-6				
D6020	B-8	Q721	F-7				
D7002	E-5	Q730	G-5				
D7011	D-3	Q731	F-5				
D7012	E-3	Q6007	G-2				
D7014	C-1	Q6008	G-1				
D7015	C-1						
D7016	B-4						
D7017	D-4						



A BOARD LOCATOR LIST (CONDUCTOR SIDE)

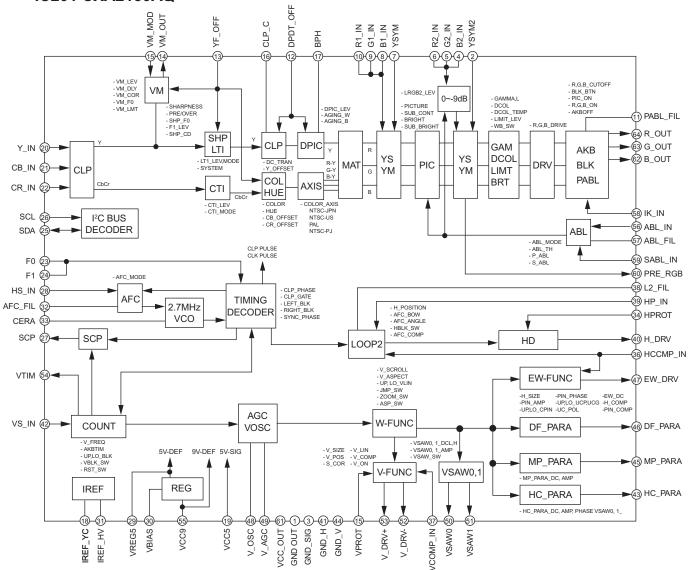
DIO	DE	Q209	B-11
D004	F-7	Q212	B-10
D008	F-7	Q216	A-10
D214	B-10	Q217	A-11
D215	B-10	Q704	D-8
D710	D-7	Q710	F-1
D711	D-7	Q717	D-5
D721	F-1	Q723	D-7
D722	F-1	Q724	E-7
D6018	D-3	Q726	C-5
D6025	D-3	Q727	C-5
D7003	E-5	Q728	C-6
D7004	E-5	Q729	C-5
D7005	E-5	Q6001	G-9
D7009	H-4	Q6002	G-10
D7010	H-4	Q6009	B-7
D7013	F-5	Q6010	A-7
D7103	E-4	Q7001	E-5
TRANS	ISTOR	Q7004	H-4
Q001	F-7	Q7005	I-4
Q002	F-7	Q7009	F-4
Q004	D-9	Q7010	F-4
Q005	H-6	Q7013	H-4
Q012	D-10	Q7014	H-4
Q015	D-10	Q7015	F-4
Q027	H-6	Q7016	E-4

A BOARD WAVEFORMS



A BOARD IC BLOCK DIAGRAM

IC201 CXA2150AQ



23.7

0.0

4.2

10.5

VOLT 4.5

4.5

4.5

GND

4.5

4.5

4.5 9.0

VOLT 4.5

4.5

4.1

GND

4.5

4.5 4.5 9.0

IC7007

9

10

11

12

PIN

2

3

4

5

6

7

PIN

1 2

3

4

5

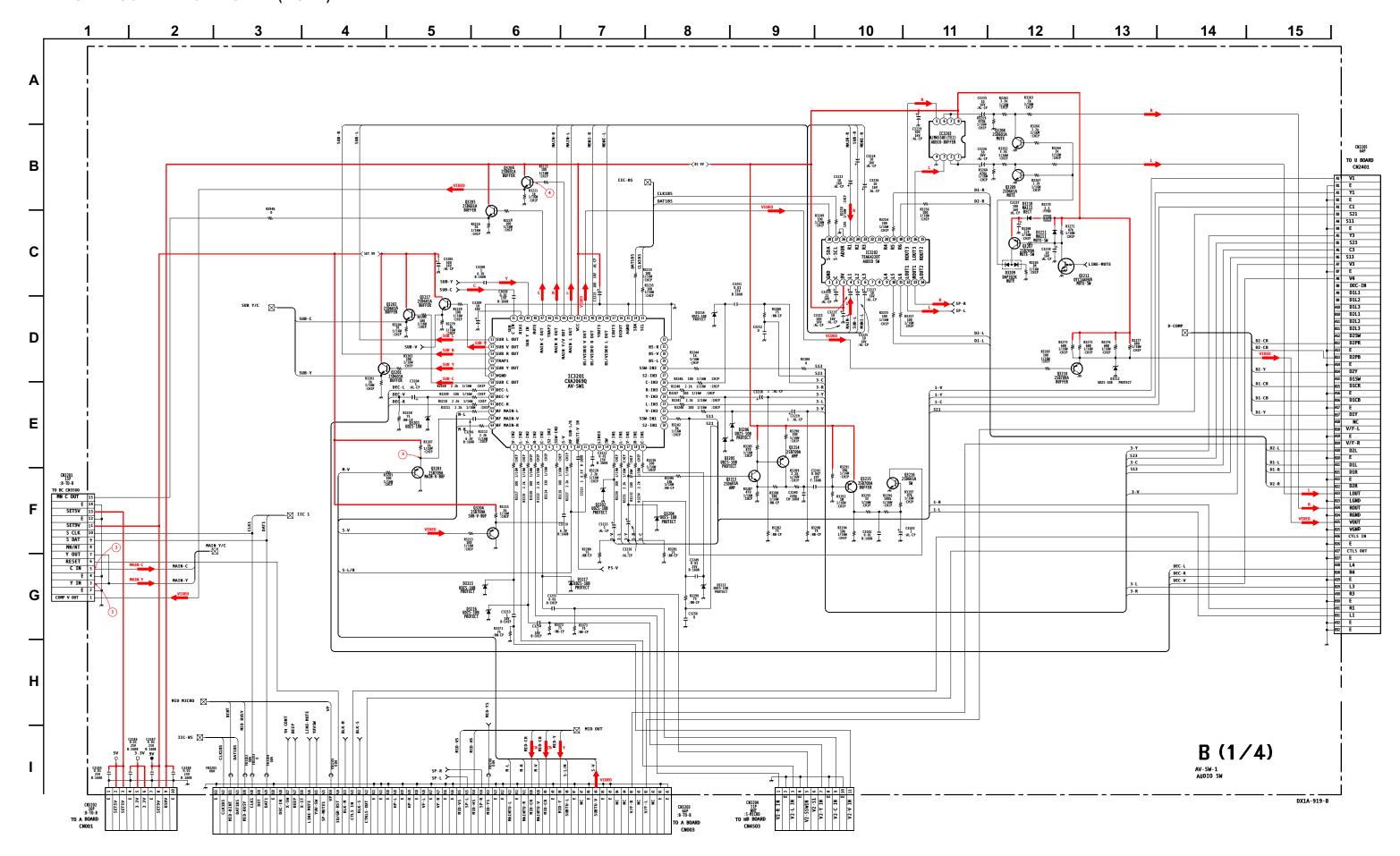
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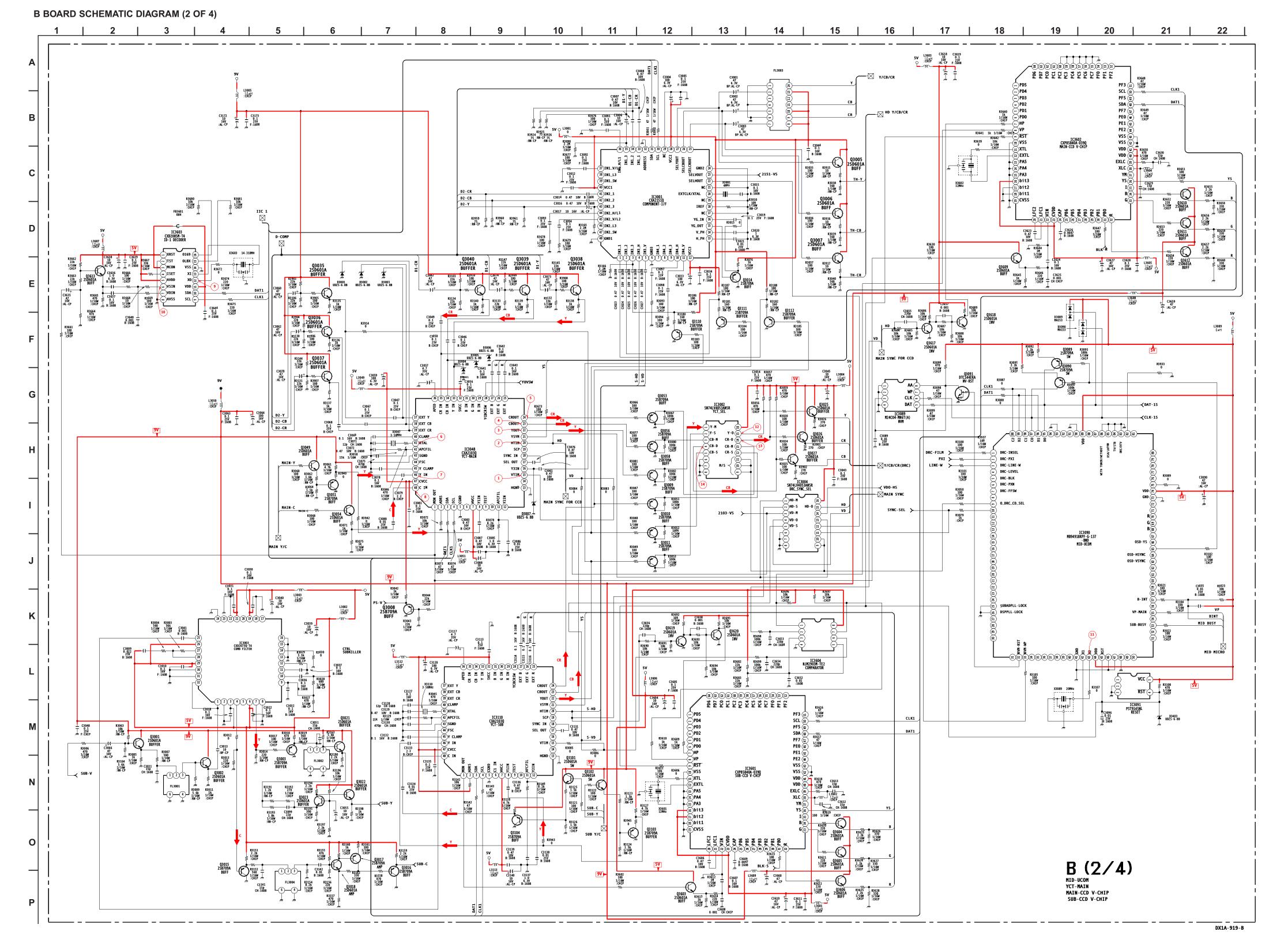
IC7006

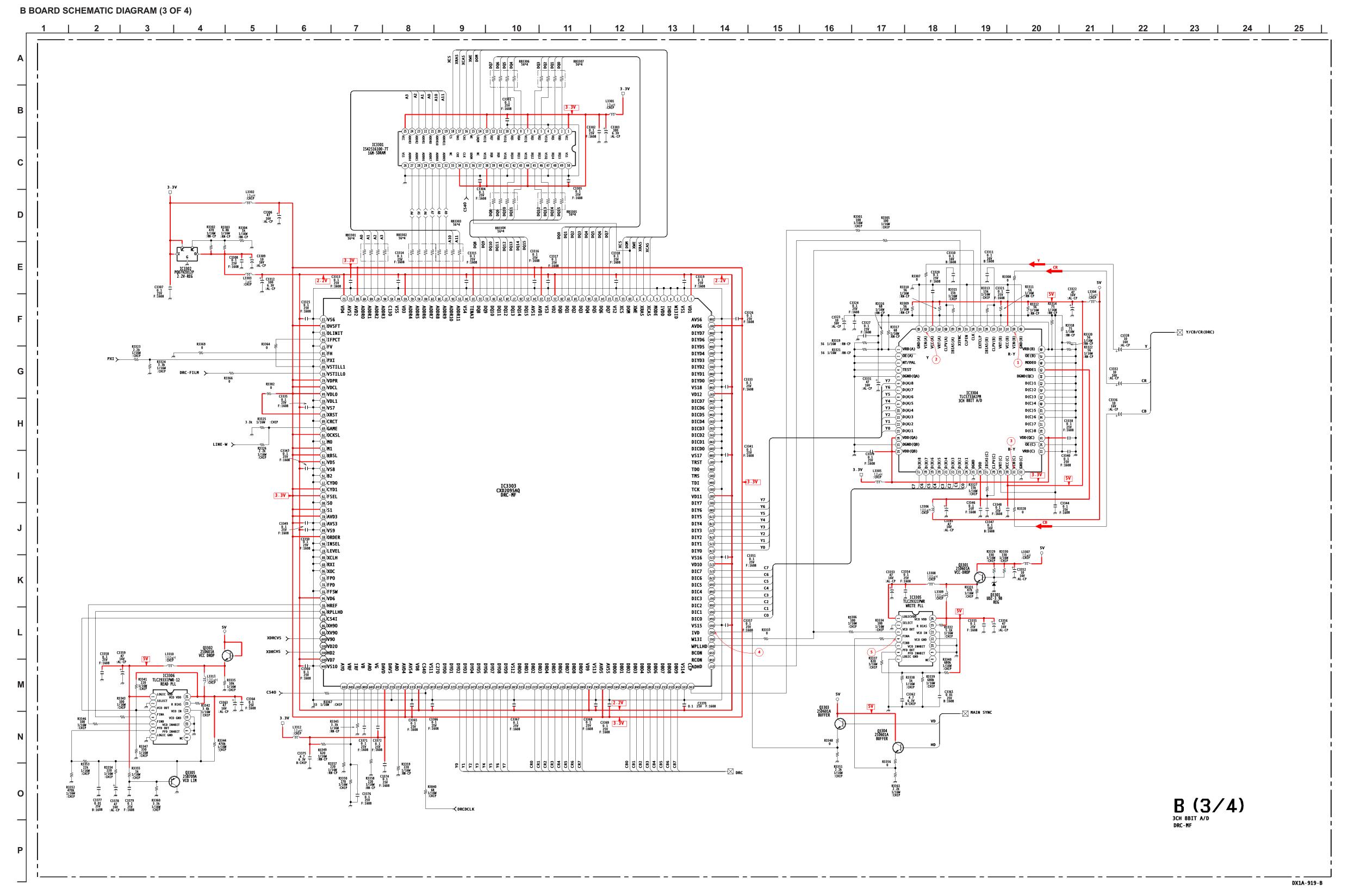
A BOARD IC VOLTAGE LIST

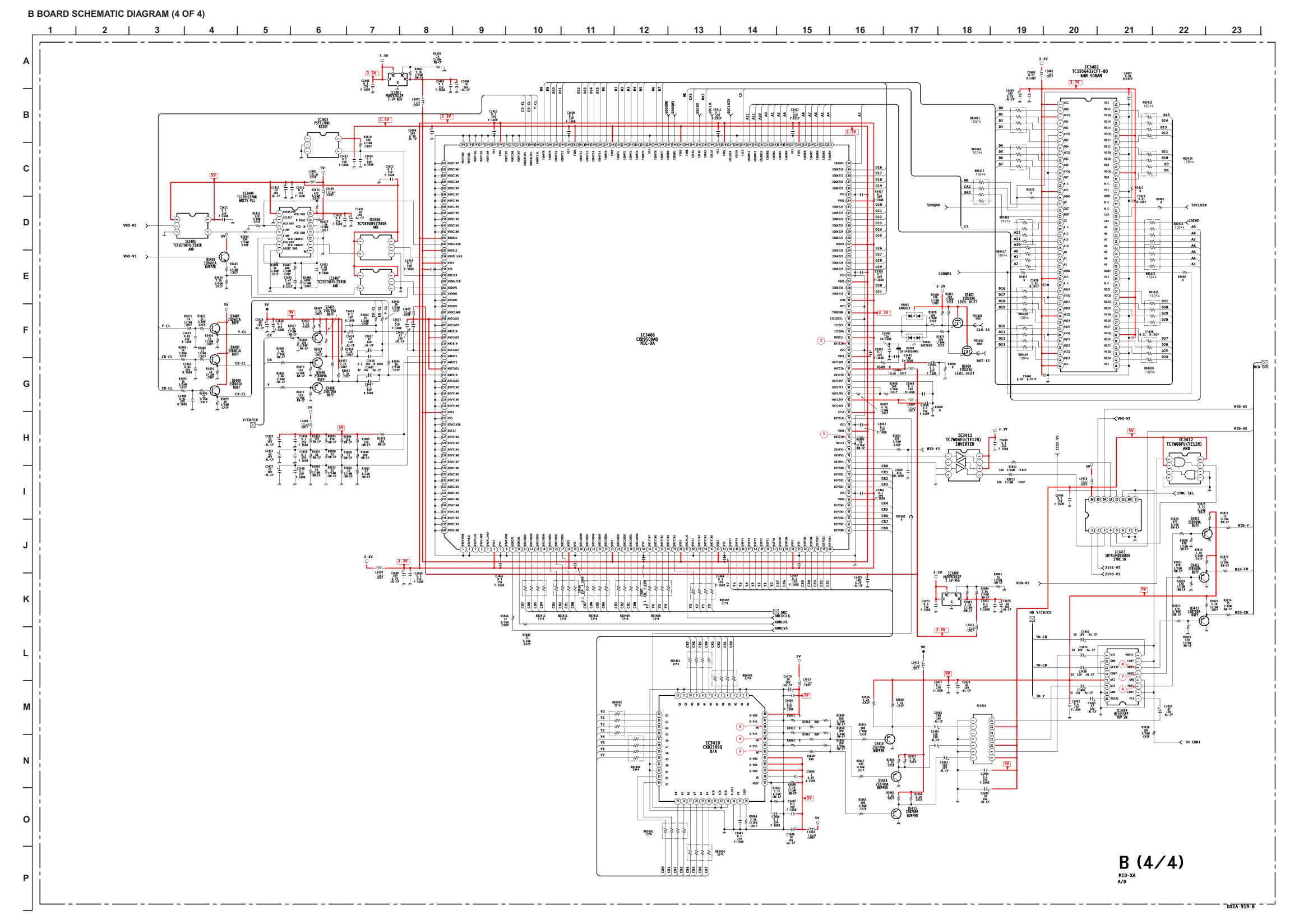
IC201												
1	IC2	201	47	3.9	29	4.9	77	0.0	6	0.0	9	4.4
2	PIN	VOLT	48	4.4	30	4.9	78	0.0	7	4.6	10	4.4
3 GND 51 3.8 33 0.0 81 0.0 10 10.4 13 0.8 4 3.1 52 3.4 34 0.0 82 0.0 11 GND 14 1.9 1.9 5 3.1 53 3.5 NC 83 0.0 12 4.7 15 9.0 6 3.1 54 1.0 36 0.0 84 0.0 13 N/C 16 9.0 7 0.0 55 9.0 37 4.6 85 0.0 14 160.6 17 4.5 16 9.0 3.6 56 1.0 38 0.0 86 N/C 15 150.4 18 4.6 19 1.9 10 3.6 58 3.9 40 0.0 86 N/C 15 150.4 18 4.6 19 1.9 10 3.6 58 3.9 40 0.0 88 0.0 17 N/C 20 0.8 11 0.0 59 1.7 41 2.3 89 0.0 18 303.1 21 4.4 12 0.5 60 1.7 42 0.0 90 0.0 IC6002 22 4.4 11 13 0.5 61 9.0 43 4.6 91 0.0 PIN VOLT 23 4.4 11 42.3 62 2.3 44 2.8 92 0.0 1 7.7 N/C 20 0.8 11 14 2.3 62 2.3 44 2.8 92 0.0 1 7.7 N/C 20 1.4 4.4 11 15 3.7 63 2.5 45 0.1 93 0.0 2 GND 25 4.4 11 7.7 8 2.6 IC701 47 4.6 95 4.6 IC6003 27 4.4 11 7.2 6 IC701 47 4.6 95 4.6 IC6003 27 4.4 11 7.2 6 IC701 47 4.6 95 4.6 IC6003 27 4.4 11 7.3 2.6 IC701 47 4.5 95 0.0 98 0.0 IC6002 2.2 4.4 11 7.7 2.6 IC701 47 4.6 95 4.6 IC6003 27 4.4 11 7.2 6 IC701 47 4.6 95 4.6 IC6003 27 4.4 11 7.2 6 IC701 47 4.6 95 4.6 IC6003 27 4.4 11 7.2 6 IC701 47 4.6 95 4.6 IC6003 27 4.4 11 7.2 6 IC701 47 4.6 95 4.6 IC6003 27 4.4 11 7.2 6 IC701 47 4.6 95 4.6 IC6003 27 4.4 11 8 1.1 PIN VOLT 48 5.0 96 GND PIN VOLT 28 4.4 11 18 1.1 PIN VOLT 48 5.0 96 GND PIN VOLT 28 4.4 11 18 1.1 PIN VOLT 48 5.0 98 GND G GND 3.3 31 2.8 12 3.4 4 0.0 52 0.0 100 4.6 IC6007 32 4.4 12 3.3 4.6 0.0 94 4.6 IC6007 32 4.4 12 3.3 4.6 0.0 94 4.6 IC6007 32 4.4 12 3.4 3 0.0 51 5.0 99 4.9 0 3.3 31 2.8 12 3.4 3 0.0 51 5.0 99 4.9 0 3.3 31 2.8 12 3.4 3 0.0 51 5.0 99 4.9 0 3.3 31 2.8 12 3.4 3 0.0 51 5.0 99 4.9 0 3.3 31 2.8 12 3.4 3 0.0 51 5.0 99 4.9 0 3.3 31 2.8 12 3.4 3 0.0 51 5.0 99 4.9 0 3.3 31 2.8 3.4 3 0.0 51 5.0 99 4.9 0 3.3 31 2.8 3.4 3 0.0 51 5.0 99 4.9 0 3.3 31 2.8 3.4 3 0.0 51 5.0 99 4.9 0 3.3 31 2.8 3.4 3 0.0 51 5.0 99 4.9 0 3.3 31 2.8 3.4 3 0.0 51 5.0 99 4.9 0 3.3 31 2.8 3.4 3 0.0 51 5.0 99 4.9 0 3.3 31 2.8 3.0 0.0 51 5.0 99 4.9 0 0 3.3 31 2.8 3.0 0.0 51 5.0 99 4.9 0 0 3.3 31 2.8 3.0 0.0 51 5.0 99 4.9 0 0 3.3 31 2.8 3.0 0.0 51 5.0 99 4.9 0 0 3.3 31 2.8 3.0 0.0 51 5.0 99 4.9 0 0 3.3 31 2.8 3.0 0.0 51 5.0 99 4.9 0 0 3.3 31 2.8 3.0 0.0 51 5.0 99 4.9 0	1	GND	49	5.4	31	4.4	79	0.0	8	17.3	11	4.4
4 3.1 52 3.4 34 0.0 82 0.0 11 GND 14 1.9 5 3.1 53 3.5 35 N/C 83 0.0 12 4.7 15 9.0 7 0.0 55 9.0 37 4.6 85 0.0 14 160.6 17 4.5 8 3.6 56 1.0 38 0.0 86 N/C 15 150.4 18 4.6 9 3.6 57 4.3 39 0.0 86 N/C 15 150.4 18 4.6 10 3.6 58 3.9 40 0.0 88 0.0 17 N/C 20 0.8 11 0.0 59 1.7 41 2.3 89 0.0 18 303.1 21 4.4 12 0.5 60 1.7 42 0.0 90 0.0	2	0.0	50	3.5	32	0.0	80	N/C	9	0.0	12	4.4
5 3.1 53 3.5 N/C 83 0.0 12 4.7 15 9.0 6 3.1 54 1.0 36 0.0 84 0.0 13 N/C 16 9.0 7 0.0 55 9.0 37 4.6 85 0.0 14 180.6 17 4.5 8 3.6 56 1.0 38 0.0 86 N/C 15 150.4 18 4.6 9 3.6 58 3.9 40 0.0 88 0.0 17 N/C 20 0.8 11 0.0 59 1.7 41 2.3 89 0.0 18 303.1 21 4.4 12 0.5 60 1.7 42 0.0 90 0.0 18 303.1 21 4.4 12 0.5 60 1.7 42 0.0 90 0.0 18 3	3	GND	51	3.8	33	0.0	81	0.0	10	10.4	13	0.8
6 3.1 54 1.0 36 0.0 84 0.0 13 N/C 16 9.0 7 0.0 55 9.0 37 4.6 85 0.0 14 160.6 17 4.5 8 3.6 56 1.0 38 0.0 86 N/C 15 150.4 18 4.6 9 3.6 57 4.3 39 0.0 87 0.0 16 15 150.4 18 4.6 9 3.6 58 3.9 40 0.0 88 0.0 17 N/C 20 0.8 11 0.0 59 1.7 41 2.3 89 0.0 18 303.1 21 4.4 12 0.5 60 1.7 42 0.0 90 0.0 16002 22 4.4 13 0.5 61 9.0 43 4.6 91 0.0 PiN VOLT 23 4.4 14 2.3 62 2.3 44 2.8 92 0.0 1 7.3 24 4.4 14 2.3 62 2.3 44 2.8 92 0.0 1 7.3 24 4.4 15 3.7 63 2.5 45 0.1 93 0.0 2 GND 25 4.4 18 18 11.1 PIN VOLT 48 5.0 96 GND PIN VOLT 28 4.4 19 4.9 1 N/C 49 5.0 97 4.6 1 5.7 29 4.4 19 4.9 1 N/C 49 5.0 97 4.6 1 5.7 29 4.4 19 4.9 1 N/C 50 0.0 98 GND G GND 23 4.4 2.3 40 0.0 98 GND G GND 24 4.6 8 22 3.4 4 0.0 52 0.0 100 4.6 16007 32 4.4 19 4.9 1 N/C 50 0.0 98 GND G GND 30 4.5 22 3.4 4 0.0 52 0.0 100 4.6 16007 32 4.4 19 4.9 1 N/C 50 0.0 98 GND G GND 30 4.5 22 3.4 4 0.0 52 0.0 100 4.6 16007 32 4.4 10 0.0 52 0.0 10 0.0 10 0.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.	4	3.1	52	3.4	34	0.0	82	0.0	11	GND	14	1.9
T	5	3.1	53	3.5	35	N/C	83	0.0	12	4.7	15	9.0
8 3.6 56 1.0 38 0.0 86 N/C 15 150.4 18 4.6 9 3.6 57 4.3 39 0.0 87 0.0 16 154.6 19 1.9 1.9 10 3.6 58 3.9 40 0.0 88 0.0 17 N/C 20 0.8 11 0.0 59 1.7 41 2.3 89 0.0 18 303.1 21 4.4 12 0.5 60 1.7 42 0.0 90 0.0 IC6002 22 4.4 13 0.5 61 9.0 43 4.6 91 0.0 PIN VOLT 23 4.4 15 3.7 63 2.5 45 0.1 93 0.0 2 GND 25 4.4 15 3.7 63 2.5 45 0.1 93 0.0 2 GND 25 4.4 16 2.7 64 2.3 46 0.0 94 4.6 3 2.5 26 4.4 17 2.6 IC701 47 4.6 95 4.6 IC6003 27 4.4 18 1.1 PIN VOLT 48 5.0 96 GND PIN VOLT 28 4.4 19 4.9 1 N/C 49 5.0 97 4.6 1 5.7 29 4.4 19 4.9 1 N/C 49 5.0 97 4.6 1 5.7 29 4.4 19 4.9 1 N/C 49 5.0 97 4.6 1 5.7 29 4.4 2.3 62 2.3 44 0.0 52 0.0 100 4.6 IC6007 32 4.4 2.3 GND 5 0.0 53 3.0 IC702 PIN VOLT 1.6 3 PIN VOLT 28 4.4 19 4.9 1 N/C 50 0.0 98 GND G GND 30 4.5 12 2.3 4.4 1.3 1.3 13 2.3 GND 5 0.0 54 0.0 PIN VOLT 1 6.6 PIN VOLT 25 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6	6	3.1	54	1.0	36	0.0	84	0.0	13	N/C	16	9.0
9 3.6 57 4.3 39 0.0 87 0.0 16 154.6 19 1.9 1.9 10 3.6 58 3.9 40 0.0 88 0.0 17 N/C 20 0.8 11 0.0 59 1.7 41 2.3 89 0.0 18 303.1 21 4.4 12 0.5 60 1.7 42 0.0 90 0.0 166002 22 4.4 13 0.5 61 9.0 43 4.6 91 0.0 PIN VOLT 23 4.4 14 2.3 62 2.3 44 2.8 92 0.0 1 7.3 24 4.4 14 2.3 62 2.3 44 2.8 92 0.0 1 7.3 24 4.4 15 15 3.7 63 2.5 45 0.1 93 0.0 2 GND 25 4.4 16 2.7 64 2.3 46 0.0 94 4.6 3 2.5 26 4.4 17 2.6 IC701 47 4.6 95 4.6 IC6003 27 4.4 18 1.1 PIN VOLT 48 5.0 96 GND PIN VOLT 28 4.4 18 1.1 PIN VOLT 48 5.0 96 GND PIN VOLT 28 4.4 19 4.9 1 N/C 49 5.0 97 4.6 I 5.7 29 4.4 20 3.6 2 N/C 50 0.0 98 GND G GND 30 4.5 21 3.4 3 0.0 51 6.0 15 3.3 12.8 22 3.4 4 0.0 52 0.0 100 4.6 IC6007 32 4.4 23 GND 5 0.0 53 3.0 IC702 PIN VOLT IC7002 24 N/C 6 0.0 53 3.0 IC702 PIN VOLT IC7002 24 N/C 6 0.0 54 0.0 PIN VOLT I 6.3 PIN VOLT 25 4.6 6 7 4.7 55 0.0 1 N/C G GND IC001 3 GND 3 GND 29 5.0 20 0.0 100 4.6 IC6007 32 4.4 0.0 29 5.0 11 N/C 59 0.0 53 3.0 IC702 PIN VOLT IC7002 24 N/C 6 0.0 54 0.0 PIN VOLT I 6.3 PIN VOLT 25 4.6 6 7 4.7 55 0.0 1 N/C G GND IC6010 3 GND 3 GND 29 5.0 11 N/C 59 0.0 50 0.0 PIN VOLT I 1.6 6.3 PIN VOLT 25 4.6 7 4.7 55 0.0 1 N/C G GND IC6010 3 GND 29 5.0 11 N/C 59 0.0 50 0.0 PIN VOLT I 1.6 6.3 PIN VOLT 25 4.6 6 7 4.7 55 0.0 1 N/C 3 GND IC6010 3 GND 29 5.0 11 N/C 59 0.0 50 0.0 PIN VOLT I 1.0 6.3 PIN VOLT 3 3 GND 5.6 12 4.9 60 0.0 IC707 G GND 6 8.0 3 I 1.3 13 2.3 61 0.0 PIN VOLT O 9.0 7 11.0 32 3.0 14 GND 56 N/C 2 GND O 5.0 2 0.0 0.0 35 0.0 17 0.0 65 0.0 4 GND G GND II N/C D 9.0 7 11.0 32 3.0 14 GND 62 4.9 1 GND G GND II 0.0 0.0 35 0.0 17 0.0 65 0.0 4 GND G GND II 7.0 10 0.0 0.0 35 0.0 17 0.0 65 0.0 4 GND G GND II 1.4 4.1 4.1 3.6 0.2 18 0.0 66 N/C 5 4.6 0 C 5.0 12 10.5 3 GND 11 1.0 1.6 0.0 44 GND G GND II 1.0 1.6 0.0 44 GND G GND II 1.0 0.0 0.0 1.0 0.0 67 0.0 68 0.0 4 GND G GND II 1.0 0.0 0.0 1.0 0.0 0	7	0.0	55	9.0	37	4.6	85	0.0	14	160.6	17	4.5
10	8	3.6	56	1.0	38	0.0	86	N/C	15	150.4	18	4.6
11	9	3.6	57	4.3	39	0.0	87	0.0	16	154.6	19	1.9
12	10	3.6	58	3.9	40	0.0	88	0.0	17	N/C	20	0.8
13	11	0.0	59	1.7	41	2.3	89	0.0	18	303.1	21	4.4
14	12	0.5	60	1.7	42	0.0	90	0.0	IC6	002	22	4.4
15	13	0.5	61	9.0	43	4.6	91	0.0	PIN	VOLT	23	4.4
16 2.7 64 2.3 46 0.0 94 4.6 3 2.5 26 4.4 17 2.6 IC701 47 4.6 95 4.6 IC6003 27 4.4 18 1.1 PIN VOLT 48 5.0 96 GND PIN VOLT 28 4.4 19 4.9 1 N/C 49 5.0 97 4.6 1 5.7 29 4.4 20 3.6 2 N/C 50 0.0 98 GND G GND 30 4.5 21 3.4 3 0.0 51 5.0 99 4.9 0 3.3 31 2.8 22 3.4 4 0.0 52 0.0 100 4.6 IC6007 32 4.4 23 GND 5 0.0 53 3.0 IC702 PIN VOLT IC6007 32	14	2.3	62	2.3	44	2.8	92	0.0	1	7.3	24	4.4
17	15	3.7	63	2.5	45	0.1	93	0.0	2	GND	25	4.4
18	16	2.7	64	2.3	46	0.0	94	4.6	3	2.5	26	4.4
19	17	2.6	IC	701	47	4.6	95	4.6	IC6	003	27	4.4
20	18	1.1	PIN	VOLT	48	5.0	96	GND	PIN	VOLT	28	4.4
21 3.4 3 0.0 51 5.0 99 4.9 O 3.3 31 2.8 22 3.4 4 0.0 52 0.0 100 4.6 IC6007 32 4.4 23 GND 5 0.0 53 3.0 IC702 PIN VOLT IC7002 24 N/C 6 0.0 54 0.0 PIN VOLT I 6.3 PIN VOLT 25 4.6 7 4.7 55 0.0 1 N/C G GND 1 1.6 26 4.6 8 GND 56 N/C 2 GND O 5.0 2 0.0 27 0.7 9 GND 57 N/C 3 GND O 5.0 2 0.0 28 0.0 10 N/C 58 0.0 4 4.9 PIN VOLT 4 0.0 <td>19</td> <td>4.9</td> <td>1</td> <td>N/C</td> <td>49</td> <td>5.0</td> <td>97</td> <td>4.6</td> <td>I</td> <td>5.7</td> <td>29</td> <td>4.4</td>	19	4.9	1	N/C	49	5.0	97	4.6	I	5.7	29	4.4
22 3.4 4 0.0 52 0.0 100 4.6 IC6007 32 4.4 23 GND 5 0.0 53 3.0 IC702 PIN VOLT IC7002 24 N/C 6 0.0 54 0.0 PIN VOLT I 6.3 PIN VOLT 25 4.6 7 4.7 55 0.0 1 N/C G GND 1 1.6 26 4.6 8 GND 56 N/C 2 GND O 5.0 2 0.0 27 0.7 9 GND 57 N/C 3 GND IC6010 3 GND 28 0.0 10 N/C 58 0.0 4 4.9 PIN VOLT 4 0.0 29 5.0 11 N/C 59 0.0 5 4.9 I 10.9 5 1.6	20	3.6	2	N/C	50	0.0	98	GND	G	GND	30	4.5
23 GND 5 0.0 53 3.0 IC702 PIN VOLT IC7002 24 N/C 6 0.0 54 0.0 PIN VOLT I 6.3 PIN VOLT 25 4.6 7 4.7 55 0.0 1 N/C G GND 1 1.6 26 4.6 8 GND 56 N/C 2 GND O 5.0 2 0.0 27 0.7 9 GND 57 N/C 3 GND IC6010 3 GND 28 0.0 10 N/C 58 0.0 4 4.9 PIN VOLT 4 0.0 29 5.0 11 N/C 59 0.0 5 4.9 I 10.9 5 1.6 30 5.6 12 4.9 60 0.0 IC707 G GND 6 8.0 <t< td=""><td>21</td><td>3.4</td><td>3</td><td>0.0</td><td>51</td><td>5.0</td><td>99</td><td>4.9</td><td>0</td><td>3.3</td><td>31</td><td>2.8</td></t<>	21	3.4	3	0.0	51	5.0	99	4.9	0	3.3	31	2.8
24 N/C 6 0.0 54 0.0 PIN VOLT I 6.3 PIN VOLT 25 4.6 7 4.7 55 0.0 1 N/C G GND 1 1.6 26 4.6 8 GND 56 N/C 2 GND O 5.0 2 0.0 27 0.7 9 GND 57 N/C 3 GND IC6010 3 GND 28 0.0 10 N/C 58 0.0 4 4.9 PIN VOLT 4 0.0 29 5.0 11 N/C 59 0.0 5 4.9 I 10.9 5 1.6 30 5.6 12 4.9 60 0.0 IC707 G GND 6 8.0 31 1.3 13 2.3 61 0.0 PIN VOLT O 9.0 7	22	3.4	4	0.0	52	0.0	100	4.6	IC6	007	32	4.4
25 4.6 7 4.7 55 0.0 1 N/C G GND 1 1.6 26 4.6 8 GND 56 N/C 2 GND O 5.0 2 0.0 27 0.7 9 GND 57 N/C 3 GND IC6010 3 GND 28 0.0 10 N/C 58 0.0 4 4.9 PIN VOLT 4 0.0 29 5.0 11 N/C 59 0.0 5 4.9 I 10.9 5 1.6 30 5.6 12 4.9 60 0.0 IC707 G GND 6 8.0 31 1.3 13 2.3 61 0.0 PIN VOLT O 9.0 7 11.0 32 3.0 14 GND 62 4.9 1 GND IC6011 8 5.0										PIN VOLT		
26 4.6 8 GND 56 N/C 2 GND O 5.0 2 0.0 27 0.7 9 GND 57 N/C 3 GND IC6010 3 GND 28 0.0 10 N/C 58 0.0 4 4.9 PIN VOLT 4 0.0 29 5.0 11 N/C 59 0.0 5 4.9 I 10.9 5 1.6 30 5.6 12 4.9 60 0.0 IC707 G GND 6 8.0 31 1.3 13 2.3 61 0.0 PIN VOLT O 9.0 7 11.0 32 3.0 14 GND 62 4.9 1 GND IC6011 8 5.0 33 1.6 15 2.4 63 4.9 2 GND PIN VOLT 9 23.7 <td>23</td> <td>GND</td> <td>5</td> <td>0.0</td> <td>53</td> <td>3.0</td> <td>IC</td> <td>702</td> <td>PIN</td> <td>VOLT</td> <td>IC7</td> <td>002</td>	23	GND	5	0.0	53	3.0	IC	702	PIN	VOLT	IC7	002
27 0.7 9 GND 57 N/C 3 GND IC6010 3 GND 28 0.0 10 N/C 58 0.0 4 4.9 PIN VOLT 4 0.0 29 5.0 11 N/C 59 0.0 5 4.9 I 10.9 5 1.6 30 5.6 12 4.9 60 0.0 IC707 G GND 6 8.0 31 1.3 13 2.3 61 0.0 PIN VOLT O 9.0 7 11.0 32 3.0 14 GND 62 4.9 1 GND IC6011 8 5.0 33 1.6 15 2.4 63 4.9 2 GND PIN VOLT 9 23.7 34 0.0 16 4.9 64 GND 3 GND I 7.0 10 0.0<									PIN I			
28 0.0 10 N/C 58 0.0 4 4.9 PIN VOLT 4 0.0 29 5.0 11 N/C 59 0.0 5 4.9 I 10.9 5 1.6 30 5.6 12 4.9 60 0.0 IC707 G GND 6 8.0 31 1.3 13 2.3 61 0.0 PIN VOLT O 9.0 7 11.0 32 3.0 14 GND 62 4.9 1 GND IC6011 8 5.0 33 1.6 15 2.4 63 4.9 2 GND PIN VOLT 9 23.7 34 0.0 16 4.9 64 GND 3 GND I 7.0 10 0.0 35 0.0 17 0.0 65 0.0 4 GND G GND 11 <td>24</td> <td>N/C</td> <td>6</td> <td>0.0</td> <td>54</td> <td>0.0</td> <td>PIN</td> <td>VOLT</td> <td></td> <td>6.3</td> <td>PIN</td> <td>VOLT</td>	24	N/C	6	0.0	54	0.0	PIN	VOLT		6.3	PIN	VOLT
29 5.0 11 N/C 59 0.0 5 4.9 I 10.9 5 1.6 30 5.6 12 4.9 60 0.0 IC707 G GND 6 8.0 31 1.3 13 2.3 61 0.0 PIN VOLT O 9.0 7 11.0 32 3.0 14 GND 62 4.9 1 GND IC6011 8 5.0 33 1.6 15 2.4 63 4.9 2 GND PIN VOLT 9 23.7 34 0.0 16 4.9 64 GND 3 GND I 7.0 10 0.0 35 0.0 17 0.0 65 0.0 4 GND GND 11 4.1 4.1 36 0.2 18 0.0 66 N/C 5 4.6 O 5.0 12 <td>24 25 26</td> <td>N/C 4.6</td> <td>6 7 8</td> <td>0.0 4.7</td> <td>54 55</td> <td>0.0</td> <td>PIN 1 2</td> <td>VOLT N/C</td> <td>I G O</td> <td>6.3 GND 5.0</td> <td>PIN 1 2</td> <td>VOLT 1.6</td>	24 25 26	N/C 4.6	6 7 8	0.0 4.7	54 55	0.0	PIN 1 2	VOLT N/C	I G O	6.3 GND 5.0	PIN 1 2	VOLT 1.6
30 5.6 12 4.9 60 0.0 IC707 G GND 6 8.0 31 1.3 13 2.3 61 0.0 PIN VOLT O 9.0 7 11.0 32 3.0 14 GND 62 4.9 1 GND IC6011 8 5.0 33 1.6 15 2.4 63 4.9 2 GND PIN VOLT 9 23.7 34 0.0 16 4.9 64 GND 3 GND I 7.0 10 0.0 35 0.0 17 0.0 65 0.0 4 GND G GND 11 4.1 36 0.2 18 0.0 66 N/C 5 4.6 O 5.0 12 10.5 37 0.0 19 0.0 67 0.0 6 4.6 IC7001 IC7005	24 25 26	N/C 4.6 4.6	6 7 8	0.0 4.7 GND	54 55 56	0.0 0.0 N/C	PIN 1 2	VOLT N/C GND	I G O	6.3 GND 5.0	PIN 1 2	1.6 0.0
31 1.3 13 2.3 61 0.0 PIN VOLT O 9.0 7 11.0 32 3.0 14 GND 62 4.9 1 GND IC6011 8 5.0 33 1.6 15 2.4 63 4.9 2 GND PIN VOLT 9 23.7 34 0.0 16 4.9 64 GND 3 GND I 7.0 10 0.0 35 0.0 17 0.0 65 0.0 4 GND G GND 11 4.1 36 0.2 18 0.0 66 N/C 5 4.6 O 5.0 12 10.5 37 0.0 19 0.0 67 0.0 6 4.6 IC7001 IC7005 38 3.2 20 N/C 68 0.0 7 5.0 PIN VOLT PIN <t< td=""><td>24 25 26 27</td><td>N/C 4.6 4.6 0.7</td><td>6 7 8 9</td><td>0.0 4.7 GND GND</td><td>54 55 56 57</td><td>0.0 0.0 N/C N/C</td><td>PIN 1 2 3</td><td>VOLT N/C GND GND</td><td> G O IC6</td><td>6.3 GND 5.0</td><td>PIN 1 2 3</td><td>1.6 0.0 GND</td></t<>	24 25 26 27	N/C 4.6 4.6 0.7	6 7 8 9	0.0 4.7 GND GND	54 55 56 57	0.0 0.0 N/C N/C	PIN 1 2 3	VOLT N/C GND GND	G O IC6	6.3 GND 5.0	PIN 1 2 3	1.6 0.0 GND
32 3.0 14 GND 62 4.9 1 GND IC6011 8 5.0 33 1.6 15 2.4 63 4.9 2 GND PIN VOLT 9 23.7 34 0.0 16 4.9 64 GND 3 GND I 7.0 10 0.0 35 0.0 17 0.0 65 0.0 4 GND G GND 11 4.1 36 0.2 18 0.0 66 N/C 5 4.6 O 5.0 12 10.5 37 0.0 19 0.0 67 0.0 6 4.6 IC7001 IC7005 38 3.2 20 N/C 68 0.0 7 5.0 PIN VOLT PIN VOLT 39 1.1 21 0.0 69 7.3 8 5.0 1 GND 1 1	24 25 26 27 28	N/C 4.6 4.6 0.7 0.0	6 7 8 9 10	0.0 4.7 GND GND N/C	54 55 56 57 58	0.0 0.0 N/C N/C 0.0	PIN 1 2 3 4	VOLT N/C GND GND 4.9	G O IC6	6.3 GND 5.0 6010 VOLT	PIN 1 2 3 4	1.6 0.0 GND 0.0
33 1.6 15 2.4 63 4.9 2 GND PIN VOLT 9 23.7 34 0.0 16 4.9 64 GND 3 GND I 7.0 10 0.0 35 0.0 17 0.0 65 0.0 4 GND G GND 11 4.1 36 0.2 18 0.0 66 N/C 5 4.6 O 5.0 12 10.5 37 0.0 19 0.0 67 0.0 6 4.6 IC7001 IC7005 38 3.2 20 N/C 68 0.0 7 5.0 PIN VOLT PIN VOLT 39 1.1 21 0.0 69 7.3 8 5.0 1 GND 1 1.6 40 2.8 22 0.0 70 0.0 IC6001 2 0.0 2 0	24 25 26 27 28 29	N/C 4.6 4.6 0.7 0.0 5.0	6 7 8 9 10	0.0 4.7 GND GND N/C N/C 4.9	54 55 56 57 58 59	0.0 0.0 N/C N/C 0.0	PIN 1 2 3 4 5	N/C GND GND 4.9	G O IC6	6.3 GND 5.0 6010 VOLT 10.9	PIN 1 2 3 4 5	1.6 0.0 GND 0.0 1.6
34 0.0 16 4.9 64 GND 3 GND I 7.0 10 0.0 35 0.0 17 0.0 65 0.0 4 GND G GND 11 4.1 36 0.2 18 0.0 66 N/C 5 4.6 O 5.0 12 10.5 37 0.0 19 0.0 67 0.0 6 4.6 IC7001 IC7005 38 3.2 20 N/C 68 0.0 7 5.0 PIN VOLT PIN VOLT 39 1.1 21 0.0 69 7.3 8 5.0 1 GND 1 1.6 40 2.8 22 0.0 70 0.0 IC6001 2 0.0 2 0.0 41 GND 23 0.0 71 N/C PIN VOLT 3 4.5 3 GN	24 25 26 27 28 29 30 31	N/C 4.6 4.6 0.7 0.0 5.0 5.6	6 7 8 9 10 11 12 13	0.0 4.7 GND GND N/C N/C 4.9	54 55 56 57 58 59 60 61	0.0 0.0 N/C N/C 0.0 0.0	PIN 1 2 3 4 5	VOLT N/C GND GND 4.9 4.9 707 VOLT	G O IC6	6.3 GND 5.0 6010 VOLT 10.9 GND 9.0	PIN 1 2 3 4 5 6 7	VOLT 1.6 0.0 GND 0.0 1.6 8.0
35 0.0 17 0.0 65 0.0 4 GND G GND 11 4.1 36 0.2 18 0.0 66 N/C 5 4.6 O 5.0 12 10.5 37 0.0 19 0.0 67 0.0 6 4.6 IC7001 IC7005 38 3.2 20 N/C 68 0.0 7 5.0 PIN VOLT PIN VOLT 39 1.1 21 0.0 69 7.3 8 5.0 1 GND 1 1.6 40 2.8 22 0.0 70 0.0 IC6001 2 0.0 2 0.0 41 GND 23 0.0 71 N/C PIN VOLT 3 4.5 3 GND 42 0.0 24 GND 72 6.3 1 -159.4 4 4.4 4	24 25 26 27 28 29 30 31 32	N/C 4.6 4.6 0.7 0.0 5.0 5.6 1.3	6 7 8 9 10 11 12 13	0.0 4.7 GND GND N/C N/C 4.9 2.3 GND	54 55 56 57 58 59 60 61 62	0.0 0.0 N/C N/C 0.0 0.0	PIN 1 2 3 4 5 IC: PIN 1	VOLT N/C GND GND 4.9 4.9 VOLT GND	I G O IC6 PIN I G O	6.3 GND 5.0 6010 VOLT 10.9 GND 9.0	PIN 1 2 3 4 5 6 7	VOLT 1.6 0.0 GND 0.0 1.6 8.0 11.0 5.0
36 0.2 18 0.0 66 N/C 5 4.6 O 5.0 12 10.5 37 0.0 19 0.0 67 0.0 6 4.6 IC7001 IC7005 38 3.2 20 N/C 68 0.0 7 5.0 PIN VOLT PIN VOLT 39 1.1 21 0.0 69 7.3 8 5.0 1 GND 1 1.6 40 2.8 22 0.0 70 0.0 IC6001 2 0.0 2 0.0 41 GND 23 0.0 71 N/C PIN VOLT 3 4.5 3 GND 42 0.0 24 GND 72 6.3 1 -159.4 4 4.4 4 0.0 43 3.8 25 0.0 73 0.0 2 1.8 5 4.4 5 1	24 25 26 27 28 29 30 31 32 33	N/C 4.6 4.6 0.7 0.0 5.0 5.6 1.3 3.0	6 7 8 9 10 11 12 13 14	0.0 4.7 GND GND N/C N/C 4.9 2.3 GND 2.4	54 55 56 57 58 59 60 61 62 63	0.0 0.0 N/C N/C 0.0 0.0 0.0 4.9	PIN 1 2 3 4 5 IC: PIN 1 2	VOLT N/C GND GND 4.9 4.9 VOLT GND GND	I G O IC6 PIN I G O	6.3 GND 5.0 010 VOLT 10.9 GND 9.0 011 VOLT	PIN 1 2 3 4 5 6 7 8 9	VOLT 1.6 0.0 GND 0.0 1.6 8.0 11.0 5.0 23.7
37 0.0 19 0.0 67 0.0 6 4.6 IC7001 IC7005 38 3.2 20 N/C 68 0.0 7 5.0 PIN VOLT PIN VOLT 39 1.1 21 0.0 69 7.3 8 5.0 1 GND 1 1.6 40 2.8 22 0.0 70 0.0 IC6001 2 0.0 2 0.0 41 GND 23 0.0 71 N/C PIN VOLT 3 4.5 3 GND 42 0.0 24 GND 72 6.3 1 -159.4 4 4.4 4 0.0 43 3.8 25 0.0 73 0.0 2 1.8 5 4.4 5 1.6 44 GND 26 N/C 74 0.0 3 -150.0 6 4.4 6	24 25 26 27 28 29 30 31 32 33 34	N/C 4.6 4.6 0.7 0.0 5.0 5.6 1.3 3.0	6 7 8 9 10 11 12 13 14	0.0 4.7 GND GND N/C N/C 4.9 2.3 GND 2.4	54 55 56 57 58 59 60 61 62 63	0.0 0.0 N/C N/C 0.0 0.0 0.0 4.9	PIN 1 2 3 4 5 IC: PIN 1 2 3	VOLT N/C GND GND 4.9 4.9 VOLT GND GND	G O IC6 PIN O IC6 PIN O IC6 PIN	6.3 GND 5.0 010 VOLT 10.9 GND 9.0 011 VOLT	PIN 1 2 3 4 5 6 7 8 9	VOLT 1.6 0.0 GND 0.0 1.6 8.0 11.0 5.0 23.7
38 3.2 20 N/C 68 0.0 7 5.0 PIN VOLT PIN VOLT 39 1.1 21 0.0 69 7.3 8 5.0 1 GND 1 1.6 40 2.8 22 0.0 70 0.0 IC6001 2 0.0 2 0.0 41 GND 23 0.0 71 N/C PIN VOLT 3 4.5 3 GND 42 0.0 24 GND 72 6.3 1 -159.4 4 4.4 4 0.0 43 3.8 25 0.0 73 0.0 2 1.8 5 4.4 5 1.6 44 GND 26 N/C 74 0.0 3 -150.0 6 4.4 6 8.0 45 2.8 27 N/C 75 GND 4 2.5 7 4.4	24 25 26 27 28 29 30 31 32 33 34 35	N/C 4.6 4.6 0.7 0.0 5.0 5.6 1.3 3.0 1.6 0.0	6 7 8 9 10 11 12 13 14 15 16	0.0 4.7 GND GND N/C N/C 4.9 2.3 GND 2.4 4.9	54 55 56 57 58 59 60 61 62 63 64 65	0.0 0.0 N/C N/C 0.0 0.0 0.0 4.9 4.9 GND	PIN 1 2 3 4 5 IC: PIN 1 2 3 4	VOLT N/C GND GND 4.9 4.9 707 VOLT GND GND GND	G O IC6 PIN O IC6 PIN O IC6 PIN G O IC6 PIN G	6.3 GND 5.0 6010 VOLT 10.9 GND 9.0 6011 VOLT 7.0 GND	PIN 1 2 3 4 5 6 7 8 9 10 11	VOLT 1.6 0.0 GND 0.0 1.6 8.0 11.0 5.0 23.7 0.0
39 1.1 21 0.0 69 7.3 8 5.0 1 GND 1 1.6 40 2.8 22 0.0 70 0.0 IC6001 2 0.0 2 0.0 41 GND 23 0.0 71 N/C PIN VOLT 3 4.5 3 GND 42 0.0 24 GND 72 6.3 1 -159.4 4 4.4 4 0.0 43 3.8 25 0.0 73 0.0 2 1.8 5 4.4 5 1.6 44 GND 26 N/C 74 0.0 3 -150.0 6 4.4 6 8.0 45 2.8 27 N/C 75 GND 4 2.5 7 4.4 7 11.0	24 25 26 27 28 29 30 31 32 33 34 35 36	N/C 4.6 4.6 0.7 0.0 5.0 5.6 1.3 3.0 1.6 0.0	6 7 8 9 10 11 12 13 14 15 16	0.0 4.7 GND GND N/C N/C 4.9 2.3 GND 2.4 4.9	54 55 56 57 58 59 60 61 62 63 64 65	0.0 0.0 N/C N/C 0.0 0.0 0.0 4.9 4.9 GND	PIN 1 2 3 4 5 IC: PIN 1 2 3 4	VOLT N/C GND GND 4.9 4.9 VOLT GND GND GND GND GND	G O IC6 PIN O IC6 PIN O G O G O G O G O G O G O G O G O G O	6.3 GND 5.0 6010 VOLT 10.9 GND 9.0 6011 VOLT 7.0 GND 5.0	PIN 1 2 3 4 5 6 7 8 9 10 11	VOLT 1.6 0.0 GND 0.0 1.6 8.0 11.0 5.0 23.7 0.0 4.1
40 2.8 22 0.0 70 0.0 IC6001 2 0.0 2 0.0 41 GND 23 0.0 71 N/C PIN VOLT 3 4.5 3 GND 42 0.0 24 GND 72 6.3 1 -159.4 4 4.4 4 0.0 43 3.8 25 0.0 73 0.0 2 1.8 5 4.4 5 1.6 44 GND 26 N/C 74 0.0 3 -150.0 6 4.4 6 8.0 45 2.8 27 N/C 75 GND 4 2.5 7 4.4 7 11.0	24 25 26 27 28 29 30 31 32 33 34 35 36	N/C 4.6 4.6 0.7 0.0 5.0 5.6 1.3 3.0 1.6 0.0 0.2	6 7 8 9 10 11 12 13 14 15 16 17	0.0 4.7 GND GND N/C N/C 4.9 2.3 GND 2.4 4.9 0.0	54 55 56 57 58 59 60 61 62 63 64 65 66	0.0 0.0 N/C N/C 0.0 0.0 0.0 4.9 4.9 GND 0.0 N/C	PIN 1 2 3 4 5 IC: PIN 1 2 3 4 5 6	VOLT N/C GND GND 4.9 4.9 VOLT GND GND GND GND GND GND 4.6	G O IC6 PIN O IC6 PIN O G O G O G O G O G O G O G O G O G O	6.3 GND 5.0 6010 VOLT 10.9 GND 9.0 6011 VOLT 7.0 GND 5.0 001	PIN 1 2 3 4 5 6 7 8 9 10 11 12	1.6 0.0 GND 0.0 1.6 8.0 11.0 5.0 23.7 0.0 4.1
41 GND 23 0.0 71 N/C PIN VOLT 3 4.5 3 GND 42 0.0 24 GND 72 6.3 1 -159.4 4 4.4 4 0.0 43 3.8 25 0.0 73 0.0 2 1.8 5 4.4 5 1.6 44 GND 26 N/C 74 0.0 3 -150.0 6 4.4 6 8.0 45 2.8 27 N/C 75 GND 4 2.5 7 4.4 7 11.0	24 25 26 27 28 29 30 31 32 33 34 35 36 37	N/C 4.6 4.6 0.7 0.0 5.0 5.6 1.3 3.0 1.6 0.0 0.2	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	0.0 4.7 GND GND N/C 4.9 2.3 GND 2.4 4.9 0.0 0.0	54 55 56 57 58 59 60 61 62 63 64 65 66 67	0.0 0.0 N/C N/C 0.0 0.0 0.0 4.9 4.9 GND 0.0 N/C	PIN 1 2 3 4 5 IC: PIN 1 2 3 4 5 6 7	VOLT N/C GND 4.9 4.9 707 VOLT GND GND GND GND GND GND GND 4.6 4.6	I G O IC6 PIN I G O IC6 PIN I G O IC7	6.3 GND 5.0 6010 VOLT 10.9 GND 9.0 6011 VOLT 7.0 GND 5.0 001	PIN 1 2 3 4 5 6 7 8 9 10 11 12 IC7	VOLT 1.6 0.0 GND 0.0 1.6 8.0 11.0 5.0 23.7 0.0 4.1 10.5
42 0.0 24 GND 72 6.3 1 -159.4 4 4.4 4 0.0 43 3.8 25 0.0 73 0.0 2 1.8 5 4.4 5 1.6 44 GND 26 N/C 74 0.0 3 -150.0 6 4.4 6 8.0 45 2.8 27 N/C 75 GND 4 2.5 7 4.4 7 11.0	24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39	N/C 4.6 4.6 0.7 0.0 5.0 5.6 1.3 3.0 1.6 0.0 0.2 0.0 3.2 1.1	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	0.0 4.7 GND GND N/C 4.9 2.3 GND 2.4 4.9 0.0 0.0 0.0	54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69	0.0 0.0 N/C N/C 0.0 0.0 0.0 4.9 4.9 GND 0.0 N/C 0.0	PIN 1 2 3 4 5 IC: PIN 1 2 3 4 5 6 7 8	VOLT N/C GND 4.9 4.9 VOLT GND GND GND GND GND GND GND GN	G	6.3 GND 5.0 6010 VOLT 10.9 GND 9.0 6011 VOLT 7.0 GND 5.0 7001 VOLT	PIN 1 2 3 4 5 6 7 8 9 10 11 12 IC7 PIN 1	VOLT 1.6 0.0 GND 0.0 1.6 8.0 11.0 5.0 23.7 0.0 4.1 10.5 005 VOLT
43 3.8 25 0.0 73 0.0 2 1.8 5 4.4 5 1.6 44 GND 26 N/C 74 0.0 3 -150.0 6 4.4 6 8.0 45 2.8 27 N/C 75 GND 4 2.5 7 4.4 7 11.0	24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40	N/C 4.6 4.6 0.7 0.0 5.0 5.6 1.3 3.0 1.6 0.0 0.2 0.0 3.2 1.1 2.8	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	0.0 4.7 GND GND N/C 4.9 2.3 GND 2.4 4.9 0.0 0.0 0.0 N/C	54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70	0.0 0.0 N/C N/C 0.0 0.0 0.0 4.9 4.9 GND 0.0 N/C 0.0	PIN 1 2 3 4 5 IC: PIN 1 2 3 4 5 6 7 8	VOLT N/C GND 4.9 4.9 VOLT GND GND GND GND GND GND GND GN	G	6.3 GND 5.0 6010 VOLT 10.9 GND 9.0 6011 VOLT 7.0 GND 5.0 001 VOLT GND	PIN 1 2 3 4 5 6 7 8 9 10 11 12 IC7 PIN 1 2	VOLT 1.6 0.0 GND 0.0 1.6 8.0 11.0 5.0 23.7 0.0 4.1 10.5 VOLT 1.6 0.0
44 GND 26 N/C 74 0.0 3 -150.0 6 4.4 6 8.0 45 2.8 27 N/C 75 GND 4 2.5 7 4.4 7 11.0	24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41	N/C 4.6 4.6 0.7 0.0 5.0 5.6 1.3 3.0 1.6 0.0 0.2 0.0 3.2 1.1 2.8	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	0.0 4.7 GND GND N/C N/C 4.9 2.3 GND 2.4 4.9 0.0 0.0 0.0 0.0	54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71	0.0 0.0 N/C N/C 0.0 0.0 0.0 4.9 4.9 GND 0.0 N/C 0.0	PIN 1 2 3 4 5 IC: PIN 1 2 3 4 5 6 7 8 IC6	VOLT N/C GND 4.9 4.9 VOLT GND GND GND GND GND 4.6 4.6 5.0 5.0 VOLT VOLT	G	6.3 GND 5.0 6010 VOLT 10.9 GND 9.0 6011 VOLT 7.0 GND 5.0 7001 VOLT GND 0.0	PIN 1 2 3 4 5 6 7 8 9 10 11 12 IC7 PIN 1 2 3	VOLT 1.6 0.0 GND 0.0 1.6 8.0 11.0 5.0 23.7 0.0 4.1 10.5 VOLT 1.6 0.0
45 2.8 27 N/C 75 GND 4 2.5 7 4.4 7 11.0	24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42	N/C 4.6 4.6 0.7 0.0 5.0 5.6 1.3 3.0 1.6 0.0 0.2 0.0 3.2 1.1 2.8 GND 0.0	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	0.0 4.7 GND N/C N/C 4.9 2.3 GND 2.4 4.9 0.0 0.0 0.0 N/C	54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72	0.0 0.0 N/C N/C 0.0 0.0 0.0 4.9 4.9 GND 0.0 N/C 0.0 0.0 N/C 0.0	PIN 1 2 3 4 5 IC: PIN 1 2 3 4 5 6 7 8 IC6 PIN 1	VOLT N/C GND 4.9 4.9 VOLT GND GND GND GND 4.6 4.6 5.0 5.0 VOLT VOLT -159.4	G	6.3 GND 5.0 6010 VOLT 10.9 GND 9.0 6011 VOLT 7.0 GND 5.0 7001 VOLT GND 0.0 4.5	PIN 1 2 3 4 5 6 7 8 9 10 11 12 IC7 PIN 1 2 3 4	1.6 0.0 GND 0.0 1.6 8.0 11.0 5.0 23.7 0.0 4.1 10.5 005 VOLT 1.6 0.0 GND 0.0
	24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42	N/C 4.6 4.6 0.7 0.0 5.0 5.6 1.3 3.0 1.6 0.0 0.2 0.0 3.2 1.1 2.8 GND 0.0	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	0.0 4.7 GND N/C N/C 4.9 2.3 GND 2.4 4.9 0.0 0.0 0.0 N/C	54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72	0.0 0.0 N/C N/C 0.0 0.0 0.0 4.9 4.9 GND 0.0 N/C 0.0 0.0 N/C 0.0	PIN 1 2 3 4 5 IC: PIN 1 2 3 4 5 6 7 8 IC6 PIN 1 2	VOLT N/C GND 4.9 4.9 VOLT GND GND GND GND GND GND GND GN	G	6.3 GND 5.0 6010 VOLT 10.9 GND 9.0 6011 VOLT 7.0 GND 5.0 001 VOLT GND 0.0 4.5 4.4	PIN 1 2 3 4 5 6 7 8 9 10 11 12 IC7 PIN 1 2 3 4	1.6 0.0 GND 0.0 1.6 8.0 11.0 5.0 23.7 0.0 4.1 10.5 005 VOLT 1.6 0.0 GND 0.0
46 3.6 28 4.4 76 0.0 5 GND 8 4.4 8 5.0	24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44	N/C 4.6 4.6 0.7 0.0 5.0 5.6 1.3 3.0 1.6 0.0 0.2 0.0 3.2 1.1 2.8 GND 0.0 3.8 GND	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26	0.0 4.7 GND GND N/C 4.9 2.3 GND 2.4 4.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74	0.0 0.0 N/C N/C 0.0 0.0 0.0 4.9 4.9 GND 0.0 N/C 0.0 0.0 N/C 0.0 0.0	PIN 1 2 3 4 5 IC: PIN 1 2 3 4 5 6 7 8 IC6 PIN 1 2 3 4 5 6 7 8 3 4 5 6 7 8 1 2 3	VOLT N/C GND 4.9 4.9 VOLT GND GND GND GND GND GND GND 4.6 4.6 5.0 5.0 5001 VOLT -159.4 1.8 -150.0	G	6.3 GND 5.0 6010 VOLT 10.9 GND 9.0 6011 VOLT 7.0 GND 5.0 001 VOLT GND 4.5 4.4 4.4	PIN 1 2 3 4 5 6 7 8 9 10 11 12 IC7 PIN 1 2 3 4 5 6	VOLT 1.6 0.0 GND 0.0 1.6 8.0 11.0 5.0 23.7 0.0 4.1 10.5 VOLT 1.6 0.0 GND 0.0 1.6 8.0
	24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45	N/C 4.6 4.6 0.7 0.0 5.0 5.6 1.3 3.0 1.6 0.0 0.2 0.0 3.2 1.1 2.8 GND 0.0 3.8 GND 2.8	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27	0.0 4.7 GND GND N/C 4.9 2.3 GND 2.4 4.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 N/C	54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75	0.0 0.0 N/C N/C 0.0 0.0 0.0 4.9 4.9 GND 0.0 N/C 0.0 7.3 0.0 N/C 6.3 0.0 GND	PIN 1 2 3 4 5 IC: PIN 1 2 3 4 5 6 7 8 IC6 PIN 1 2 3 4	VOLT N/C GND 4.9 4.9 VOLT GND GND GND GND GND 4.6 4.6 5.0 5.0 001 VOLT -159.4 1.8 -150.0 2.5	G	6.3 GND 5.0 6010 VOLT 10.9 GND 9.0 6011 VOLT 7.0 GND 5.0 7001 VOLT GND 0.0 4.5 4.4 4.4 4.4	PIN 1 2 3 4 5 6 7 8 9 10 11 12 IC7 PIN 1 2 3 4 5 6 7	VOLT 1.6 0.0 GND 0.0 1.6 8.0 11.0 5.0 23.7 0.0 4.1 10.5 VOLT 1.6 0.0 GND 0.0 1.6 8.0 11.0

All voltages are in V.







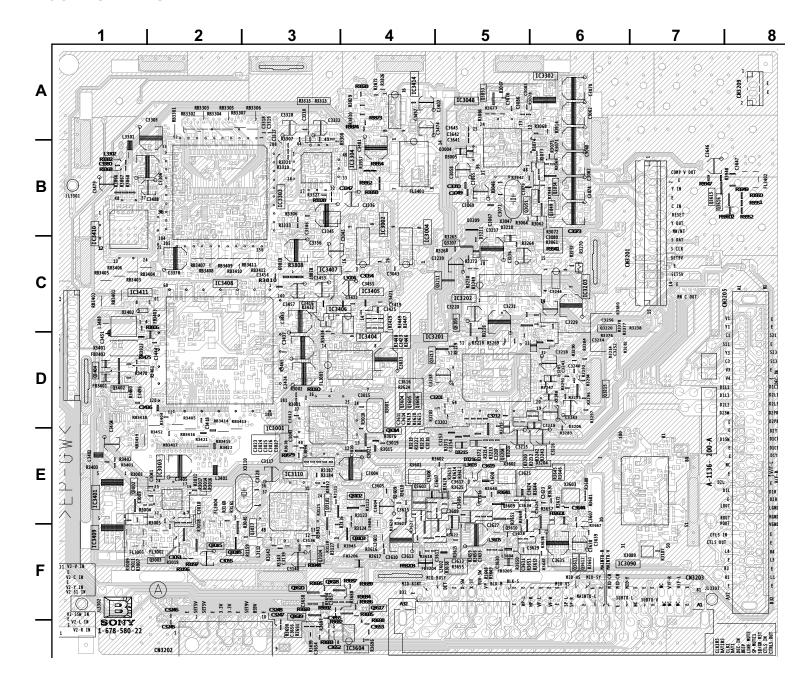


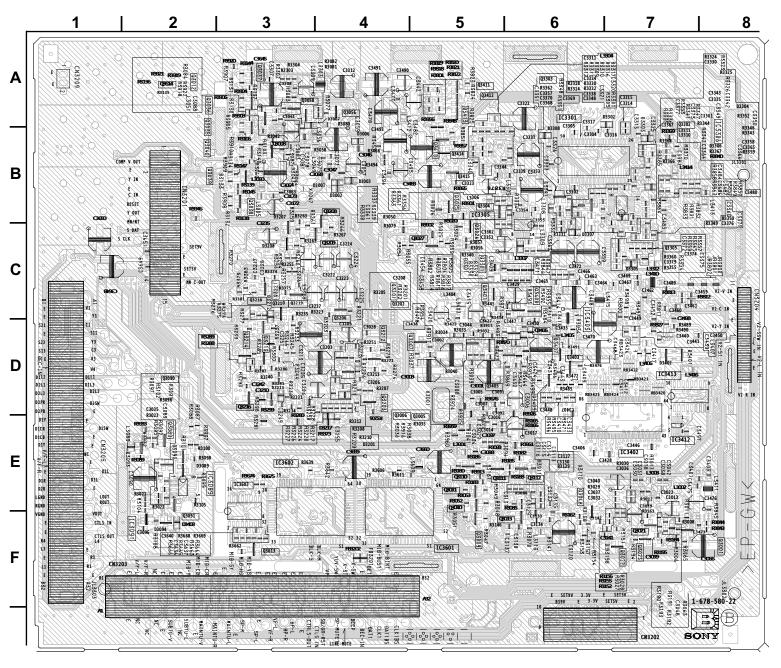
B-5 B-5



COMPONENT SIDE

CONDUCTOR SIDE





B BOARD LOCATOR LIST (COMPONENT SIDE)

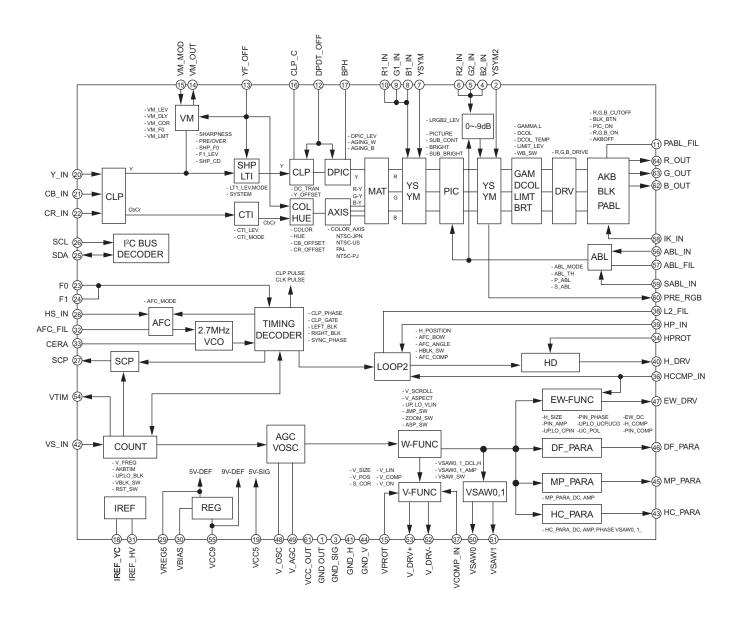
DIODE IC)	IC3304	B-4	TRANSISTOR		Q3102	E-4	Q3604	D-4	CRYS	STAL	
D3004	B-5	IC3001	E-3	IC3401	E-1	Q3002	E-1	Q3103	F-4	Q3605	D-4	X3001	D-4
D3005	B-5	IC3002	B-4	IC3404	D-4	Q3003	F-2	Q3104	F-3	Q3606	D-4	X3047	B-5
D3202	E-5	IC3003	E-2	IC3405	C-4	Q3014	E-4	Q3204	E-5	Q3609	E-5	X3089	F-7
D3204	E-6	IC3004	C-5	IC3406	C-4	Q3015	F-2	Q3205	C-5	Q3610	F-5	X3110	E-2
D3205	D-6	IC3048	A-5	IC3407	C-4	Q3016	F-2	Q3207	C-5	Q3611	F-6	X3401	D-1
D3206	E-6	IC3090	F-7	IC3408	C-2	Q3017	F-3	Q3211	C-5	Q3612	F-6	X3601	E-4
D3209	B-5	IC3110	E-3	IC3409	F-1	Q3049	B-6	Q3215	D-6	Q3617	F-4	X3602	E-6
D3210	B-5	IC3201	D-5	IC3410	C-1	Q3051	B-6	Q3217	D-5	Q3618	F-4	X3603	E-6
D3211	B-5	IC3202	C-5	IC3411	C-2	Q3053	A-5	Q3402	D-1	Q3619	G-3		
D3214	D-6	IC3203	C-6	IC3414	A-4	Q3054	B-6	Q3404	D-1	Q3620	F-3	1	
D3215	E-5	IC3302	A-6	IC3604	G-4	Q3101	E-4	Q3603	E-4			_	
D3216	E-5	IC3303	B-3							•			

B BOARD LOCATOR LIST (CONDUCTOR SIDE)

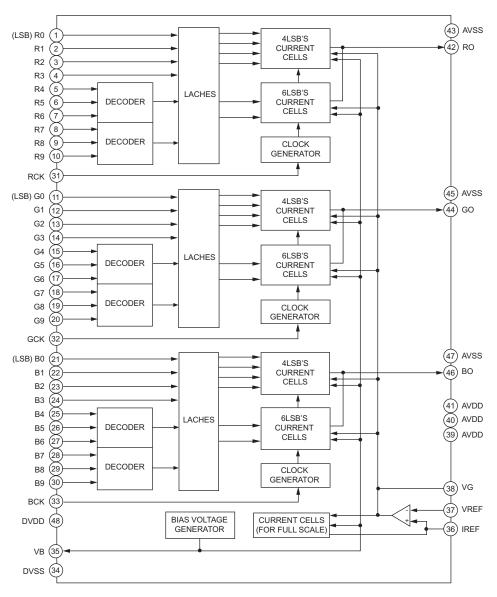
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D3002	B-4	D3402	D-7	IC3601	F-5	Q3018	E-6	Q3040	B-2	Q3206	C-4	Q3401	C-5	
D3003	B-4	D3403	F-2	IC3602	E-3	Q3021	F-7	Q3056	A-4	Q3208	B-4	Q3403	D-6	
D3006	B-4	IC		IC3603	E-3	Q3022	F-7	Q3058	A-3	Q3209	C-4	Q3405	D-5	
D3007	B-4	IC3089	E-2	TRANS	SISTOR	Q3023	F-7	Q3089	E-2	Q3210	C-3	Q3406	D-6]
D3089	E-2	IC3091	F-2	Q3001	F-8	Q3025	B-5	Q3090	D-2	Q3213	D-3	Q3407	D-6	1
D3090	E-2	IC3301	B-6	Q3005	E-5	Q3026	B-5	Q3091	F-2	Q3214	D-3	Q3408	C-6]
D3201	E-4	IC3305	B-5	Q3006	E-5	Q3027	B-5	Q3110	E-5	Q3216	D-3	Q3409	D-6]
D3212	C-3	IC3306	B-8	Q3007	D-5	Q3035	B-2	Q3111	E-5	Q3301	C-5	Q3410	B-5	1
D3213	D-3	IC3402	E-7	Q3008	B-3	Q3036	A-2	Q3112	E-6	Q3302	A-7	Q3411	A-5]
D3217	E-4	IC3403	C-6	Q3009	F-5	Q3037	A-3	Q3201	C-4	Q3303	A-6	Q3412	A-5]

IC DIAGRAMS

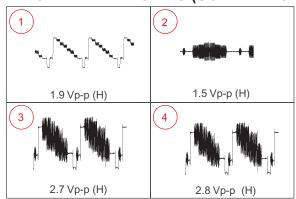
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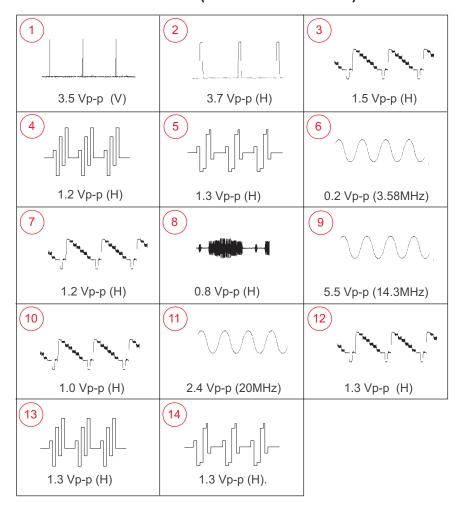
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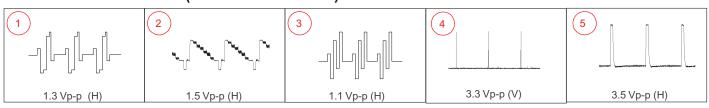
B BOARD WAVEFORMS (SCHEMATIC 1 OF 4)



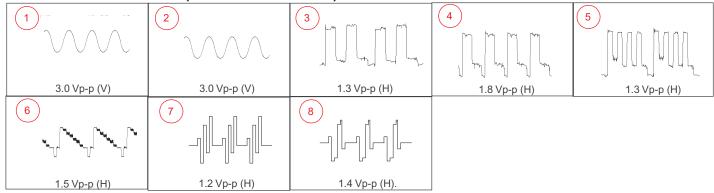
B BOARD WAVEFORMS (SCHEMATIC 2 OF 4)



B BOARD WAVEFORMS (SCHEMATIC 3 OF 4)



B BOARD WAVEFORMS (SCHEMATIC 4 OF 4)



B BOARD TRANSISTOR VOLTAGE LIST

	В	С	Е		В	С	Е		В	С	Е
Q3001	4.1	9.0	3.4	Q3056	2.1	GND	2.8	Q3304	0.5	4.9	0.2
Q3002	5.1	9.0	5.7	Q3058	1.9	GND	2.5	Q3305	3.2	GND	2.3
Q3003	1.8	GND	5.4	Q3089	4.1	4.7	4.7	Q3401	0.0	4.9	0.0
Q3005	2.2	4.9	1.6	Q3090	4.1	4.7	4.7	Q3402	4.6	3.3	3.1
Q3006	2.9	4.9	2.2	Q3091	0.0	8.9	GND	Q3403	1.0	4.9	0.5
Q3007	2.9	4.8	2.3	Q3101	3.7	9.0	3.1	Q3404	4.6	3.3	3.1
Q3008	1.0	GND	1.6	Q3102	2.8	9.0	2.2	Q3405	2.3	GND	3.0
Q3009	2.0	GND	0.0	Q3103	1.1	GND	1.7	Q3406	2.3	GND	3.0
Q3010	2.0	GND	0.0	Q3104	1.5	GND	2.1	Q3407	1.7	4.9	1.2
Q3011	1.2	GND	0.0	Q3110	0.8	GND	1.5	Q3408	2.3	GND	3.0
Q3014	2.7	GND	3.3	Q3111	1.2	GND	1.8	Q3409	1.7	4.9	1.2
Q3015	1.0	GND	1.6	Q3112	1.2	GND	1.8	Q3410	0.5	GND	1.2
Q3016	1.1	GND	1.7	Q3201	4.6	2.9	2.5	Q3411	1.5	GND	2.2
Q3017	4.1	4.8	0.7	Q3202	2.7	9.0	2.3	Q3412	1.5	GND	2.2
Q3018	1.5	4.1	0.9	Q3203	3.1	GND	3.7	Q3413	1.5	GND	2.2
Q3021	2.9	9.0	0.7	Q3204	1.8	GND	2.2	Q3414	0.8	GND	1.5
Q3022	7.9	9.0	0.0	Q3205	4.4	9.0	3.8	Q3415	1.4	GND	2.0
Q3023	0.7	7.9	0.3	Q3206	4.9	9.0	4.3	Q3603	1.0	4.9	0.3
Q3025	2.5	5.0	1.4	Q3207	8.9	-1.0	8.9	Q3604	0.0	9.0	0.0
Q3026	2.7	5.0	1.4	Q3208	-0.3	0.0	GND	Q3605	0.0	9.0	0.0
Q3027	2.8	5.0	1.4	Q3209	-0.3	0.0	GND	Q3606	0.0	9.0	0.0
Q3035	5.1	9.0	4.3	Q3210	2.7	GND	3.1	Q3609	1.9	4.9	1.3
Q3036	5.1	9.0	4.3	Q3211	0.4	8.9	GND	Q3610	0.0	9.0	0.0
Q3037	5.1	9.0	4.3	Q3213	3.8	7.9	3.2	Q3611	0.0	9.0	0.0
Q3038	4.9	9.0	4.1	Q3214	7.9	5.8	8.5	Q3612	0.0	9.0	0.0
Q3039	4.9	9.0	4.1	Q3215	8.5	0.0	9.0	Q3613	3.7	4.9	3.0
Q3040	4.9	9.0	4.1	Q3216	0.1	4.9	GND	Q3617	0.5	4.7	GND
Q3049	5.3	8.9	4.7	Q3217	3.6	9.0	3.1	Q3618	0.2	4.7	GND
Q3051	2.3	GND	3.0	Q3301	3.9	4.9	3.4	Q3619	0.5	0.1	GND
Q3053	2.0	GND	2.6	Q3302	4.9	4.9	3.4	Q3620	0.2	0.2	GND
Q3054	5.7	8.9	5.1	Q3303	0.5	4.9	0.1			All volta	ages are in V.

N/C

N/C 2.6

N/C

N/C

N/C

1.7

1.8

2.4

0.0

2.4

3.4

2.4 4.8

3.1

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B BOARD IC VOLTAGE LIST (1 OF 5)

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IC3	001	3	2.7	5	0.0	41	1.7	35	N/C	89	5.0
PIN	VOLT	4	2.8	6	GND	42	2.4	36	N/C	90	GND
1	3.2	5	0.0	7	GND	43	GND	37	N/C	91	N/C
2	3.2	6	GND	8	GND	44	N/C	38	N/C	92	N/C
3	3.2	7	GND	9	4.9	45	3.1	39	N/C	93	GND
4	1.2	8	GND	10	4.9	46	2.8	40	N/C	94	N/C
5	1.0	9	4.9	11	0.0	47	4.8	41	GND	95	2.9
6	GND	10	4.9	12	0.3	48	3.1	42	0.0	96	0.0
7	N/C	11	4.9	13	0.6	IC3	089	43	5.0	97	2.9
8	N/C	12	0.1	14	0.3	PIN	VOLT	44	5.0	98	4.3
9	N/C	13	2.6	15	0.6	1	GND	45	4.9	99	2.9
10	1.0	14	2.7	16	4.9	2	GND	46	GND	100	4.3
11	0.9	15	2.5	IC3	3048	3	0.0	47	GND	IC3	091
12	4.8	16	4.9	PIN	VOLT	4	GND	48	GND	PIN	VOLT
13	4.0	IC3	3003	1	1.7	5	4.6	49	N/C	1	N/C
14	4.0	PIN	VOLT	2	0.2	6	4.6	50	N/C	2	GND
15	2.7	1	1.0	3	4.6	7	4.9	51	N/C	3	GND
16	2.3	2	GND	4	4.6	8	4.9	52	N/C	4	4.9
17	1.0	3	4.8	5	GND	IC3	090	53	0.0	5	4.9
18	2.8	4	1.0	6	N/C	PIN	VOLT	54	N/C	IC3	110
19	0.0	5	N/C	7	4.9	1	0.0	55	0.0	PIN	VOLT
20	2.7	6	4.8	8	2.8	2	0.0	56	N/C	1	1.0
21	0.0	7	0.5	9	N/C	3	0.0	57	0.0	2	4.6
22	0.3	8	GND	10	N/C	4	N/C	58	N/C	3	4.6
23	0.0	9	1.9	11	2.3	5	N/C	59	N/C	4	4.6
24	GND	10	2.6	12	N/C	6	N/C	60	N/C	5	GND
25	2.9	11	0.9	13	GND	7	N/C	61	N/C	6	N/C
26	2.8	12	2.0	14	N/C	8	N/C	62	N/C	7	4.9
27	2.2	13	GND	15	0.5	9	0.0	63	N/C	8	2.6
28	4.8	14	0.0	16	2.4	10	0.0	64	N/C	9	N/C
29	GND	15	GND	17	2.0	11	N/C	65	2.6	10	N/C
30	4.6	16	GND	18	3.1	12	N/C	66	N/C	11	2.4
31	4.6	17	N/C	19	N/C	13	N/C	67	N/C	12	N/C
32	GND	18	GND	20	0.5	14	N/C	68	N/C	13	GND
33	3.1	19	4.9	21	0.0	15	N/C	69	N/C	14	N/C
34	3.1	20	N/C	22	1.8	16	N/C	70	N/C	15	0.5
35	3.1	21	4.9	23	2.1	17	N/C	71	N/C	16	N/C
36	3.2	22	GND	24	2.0	18	N/C	72	N/C	17	1.6
37	3.2	23	N/C	25	3.4	19	N/C	73	GND	18	2.8
38	N/C	24	GND	26	3.4	20	N/C	74	5.0	19	N/C
39	N/C	25	2.4	27	3.4	21	N/C	75	GND	20	0.5
40	4.8	26	4.8	28	0.0	22	N/C	76	N/C	21	0.0
41	3.1	27	2.2	29	N/C	23	N/C	77	N/C	22	1.2
42	3.1	28	2.2	30	N/C	24	N/C	78	N/C	23	2.0
43	3.1	29	4.8	31	N/C	25	GND	79	N/C	24	1.9
44	3.3	30	GND	32	4.8	26	GND	80	N/C	25	3.4
45	3.2	31	GND	33	3.4	27	N/C	81	N/C	26	3.4
46	N/C	32	1.0	34	3.1	28	N/C	82	GND	27	3.4
47	N/C		3004	35	0.0	29	N/C	83	GND	28	N/C
48	GND	PIN	VOLT	36	2.6	30	N/C	84	GND	29	N/C
	002	1	0.6	37	3.4	31	N/C	85	GND	30	N/C
PIN 1	VOLT	3	0.5	38	3.1	32	0.0	86	GND	31	N/C
2	2.4	4	0.5	39	3.1	33	0.0	87	N/C	32	4.8
	0.0	4	0.5	40	1.7	34	N/C	88	N/C	33	N/C

All voltages are in V.

B BOARD IC VOLTAGE LIST (2 OF 5)

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IC3	201	52	4.5	IC3	301	IC3	302	44	GND	96	2.0	148	1.6	200	GND
PIN	VOLT	53	3.8	PIN	VOLT	PIN	VOLT	45	N/C	97	1.3	149	2.2	201	GND
1	3.9	54	4.5	1	3.3	I	3.3	46	0.0	98	N/C	150	2.4	202	GND
2	4.4	55	N/C	2	1.5	G	GND	47	0.0	99	N/C	151	2.3	203	GND
3	3.9	56	3.4	3	1.6	0	2.2	48	0.0	100	0.0	152	2.3	204	GND
4	4.4	57	GND	4	GND	VC	3.3	49	0.0	101	N/C	153	2.0	205	GND
5	4.4	58	4.3	5	1.5	NC	0.0	50	3.3	102	0.2	154	1.2	206	GND
6	N/C	59	4.4	6	1.5	IC3	303	51	GND	103	2.2	155	GND	207	3.3
7	4.9	60	3.9	7	3.3	PIN	VOLT	52	2.2	104	GND	156	1.6	208	GND
8	4.0	61	4.4	8	1.9	1	2.2	53	GND	105	0.4	157	3.3	All voltage	es are in V.
9	4.5	62	4.4	9	1.8	2	GND	54	3.3	106	1.0	158	N/C		
10	4.4	63	4.8	10	GND	3	GND	55	GND	107	1.0	159	N/C		
11	4.5	64	4.4	11	1.2	4	GND	56	GND	108	1.0	160	0.8		
12	4.4	IC3	202	12	0.5	5	GND	57	GND	109	0.5	161	0.9		
13	N/C	PIN	VOLT	13	3.3	6	GND	58	GND	110	2.2	162	0.0		
14	N/C	1	GND	14	3.2	7	1.9	59	0.0	111	3.3	163	GND		
15	4.4	2	4.4	15	3.2	8	2.0	60	GND	112	GND	164	1.4		
16	4.4	3	9.0	16	3.2	9	2.0	61	0.0	113	0.5	165	1.9		
17	3.9	4	4.4	17	3.2	10	0.3	62	3.3	114	3.3	166	1.8		
18	4.4	5	4.4	18	3.2	11	1.9	63	3.3	115	GND	167	1.9		
19	4.4	6	4.4	19	0.0	12	GND	64	3.3	116	2.2	168	1.9		
20	N/C	7	N/C	20	0.0	13	0.6	65	GND	117	0.0	169	1.9		
21	4.9	8	N/C	21	0.0	14	1.0	66	GND	118	GND	170	1.9		
22	4.3	9	N/C	22	0.0	15	1.9	67	3.3	119	N/C	171	1.3		
23	4.4	10	4.4	23	0.0	16	1.3	68	GND	120	N/C	172	2.2		
24	3.9	11	4.4	24	0.0	17	1.0	69	0.0	121	N/C	173	GND		
25	4.4	12	4.4	25	3.3	18	1.0	70	3.3	122	1.4	174	1.5		
26	4.4	13	4.4	26	GND	19	1.2	71	GND	123	1.3	175	1.6		
27	N/C	14	N/C	27	0.0	20	1.0	72	3.3	124	1.4	176	1.3		
28	4.9	15	N/C	28	0.0	21	2.2	73	3.3	125	1.4	177	1.0		
29	N/C	16	4.4	29	0.0	22	GND	74	2.2	126	1.0	178	2.3		
30	N/C	17	4.4	30	0.0	23	3.3	75	GND	127	0.9	179	0.7		
31	N/C	18	4.4	31	0.0	24	GND	76	GND	128	1.1	180	1.6		
32	GND	19	4.4	32	0.0	25	0.8	77	GND	129	0.9	181	0.8		
33	4.4	20	N/C	33	N/C	26	0.8	78	3.3	130	GND	182	2.2		
34	4.6	21	N/C	34	3.3	27	0.6	79	3.3	131	N/C	183	GND		
35	GND	22	N/C	35	1.7	28	1.2	80	GND	132	N/C	184	N/C		
36	N/C	23	4.4	36	0.5	29	0.7	81	3.3	133	1.6	185	N/C		
37	N/C	24	4.4	37	N/C	30	0.7	82	3.3	134	1.6	186	N/C	l	
38	4.5	25	4.4	38	3.3	31	1.0	83	GND	135	2.2	187	GND	l	
39	N/C	26	GND	39	1.6	32	0.9	84	GND	136	2.2	188	GND	l	
40	4.5	27	4.6	40	1.6	33	3.3	85	3.3	137	2.2	189	GND		
41	4.5	28	4.6	41	GND	34	GND	86	GND	138	2.1	190	GND		
42	9.0		203	42	1.5	35	0.0	87	GND	139	2.1	191	GND		
43	4.5	PIN	VOLT	43	1.5	36	0.0	88	GND	140	1.1	192	GND		
44	4.4	1	4.4	44	3.3	37	0.0	89	GND	141	2.2	193	GND		
45	4.4	2	4.4	45	1.8	38	0.0	90	GND	142	GND	194	GND		
46	N/C	3	4.4	46	2.0	39	0.0	91	N/C	143	3.3	195	GND		
47	4.4	4	GND	47	GND	40	0.0	92	N/C	143	GND	196	GND		
48	N/C	5	4.4	48	1.7	41	0.0	93	GND	144	N/C	197	2.2		
49	4.1	6	4.4	49	1.7	41	0.0	93	2.2	146	N/C	198	GND		
50	4.1	7	4.4	50	GND	43	2.2	95	1.0	146	1.6	199	GND		
		8		50	טוזט	43	2.2	უე	1.0	14/	1.0	199	טוזט	I	
51	4.4	Ö	9.0												

B BOARD IC VOLTAGE LIST (3 OF 5)

IC3304 51 4.8 N/C 0.0 50 PIN VOLT 52 4.4 IC3402 51 1 1.6 53 2.4 PIN VOLT 52 2 GND 54 2.4 1 3.3 53 3 GND 55 1.6 2 1.8 54 4 GND 56 0.5 3 3.3 55 5 GND 57 GND 4 1.3 56 6 1.2 58 3.3 5 0.9 57 7 1.2 59 3.3 6 GND 58 8 0.0 60 1.6 7 2.4 59 9 1.9 61 3.2 8 2.2 60 10 0.1 62 4.8 9 3.3 61 11 0.8 63 2.1 10 0.9 62<	1.0 1.6 GND 0.9 0.9 3.3 1.1 N/C GND 2.4 0.0
1 1.6 53 2.4 PIN VOLT 52 2 GND 54 2.4 1 3.3 53 3 GND 55 1.6 2 1.8 54 4 GND 56 0.5 3 3.3 55 5 GND 57 GND 4 1.3 56 6 1.2 58 3.3 5 0.9 57 7 1.2 59 3.3 6 GND 58 8 0.0 60 1.6 7 2.4 59 9 1.9 61 3.2 8 2.2 60 10 0.1 62 4.8 9 3.3 61 11 0.8 63 2.1 10 0.9 62	GND 0.9 0.9 3.3 1.1 N/C GND 2.4
2 GND 54 2.4 1 3.3 53 3 GND 55 1.6 2 1.8 54 4 GND 56 0.5 3 3.3 55 5 GND 57 GND 4 1.3 56 6 1.2 58 3.3 5 0.9 57 7 1.2 59 3.3 6 GND 58 8 0.0 60 1.6 7 2.4 59 9 1.9 61 3.2 8 2.2 60 10 0.1 62 4.8 9 3.3 61 11 0.8 63 2.1 10 0.9 62	0.9 0.9 3.3 1.1 N/C GND 2.4
3 GND 55 1.6 2 1.8 54 4 GND 56 0.5 3 3.3 55 5 GND 57 GND 4 1.3 56 6 1.2 58 3.3 5 0.9 57 7 1.2 59 3.3 6 GND 58 8 0.0 60 1.6 7 2.4 59 9 1.9 61 3.2 8 2.2 60 10 0.1 62 4.8 9 3.3 61 11 0.8 63 2.1 10 0.9 62	0.9 3.3 1.1 N/C GND 2.4
4 GND 56 0.5 3 3.3 55 5 GND 57 GND 4 1.3 56 6 1.2 58 3.3 5 0.9 57 7 1.2 59 3.3 6 GND 58 8 0.0 60 1.6 7 2.4 59 9 1.9 61 3.2 8 2.2 60 10 0.1 62 4.8 9 3.3 61 11 0.8 63 2.1 10 0.9 62	3.3 1.1 N/C GND 2.4
5 GND 57 GND 4 1.3 56 6 1.2 58 3.3 5 0.9 57 7 1.2 59 3.3 6 GND 58 8 0.0 60 1.6 7 2.4 59 9 1.9 61 3.2 8 2.2 60 10 0.1 62 4.8 9 3.3 61 11 0.8 63 2.1 10 0.9 62	1.1 N/C GND 2.4
6 1.2 58 3.3 5 0.9 57 7 1.2 59 3.3 6 GND 58 8 0.0 60 1.6 7 2.4 59 9 1.9 61 3.2 8 2.2 60 10 0.1 62 4.8 9 3.3 61 11 0.8 63 2.1 10 0.9 62	N/C GND 2.4
7 1.2 59 3.3 6 GND 58 8 0.0 60 1.6 7 2.4 59 9 1.9 61 3.2 8 2.2 60 10 0.1 62 4.8 9 3.3 61 11 0.8 63 2.1 10 0.9 62	GND 2.4
8 0.0 60 1.6 7 2.4 59 9 1.9 61 3.2 8 2.2 60 10 0.1 62 4.8 9 3.3 61 11 0.8 63 2.1 10 0.9 62	2.4
9 1.9 61 3.2 8 2.2 60 10 0.1 62 4.8 9 3.3 61 11 0.8 63 2.1 10 0.9 62	+
10 0.1 62 4.8 9 3.3 61 11 0.8 63 2.1 10 0.9 62	0.0
11 0.8 63 2.1 10 0.9 62	
	2.4
	2.2
12 2.0 64 GND 11 2.8 63	1.7
13 1.6 IC3305 12 GND 64	1.7
14 3.3 PIN VOLT 13 0.9 65	1.8
15 0.0 1 3.4 14 N/C 66	0.1
16 3.3 2 GND 15 3.3 67	2.9
17 0.0 3 1.6 16 0.1 68	1.8
18 3.2 4 0.2 17 3.1 69	N/C
19 3.2 5 1.3 18 2.9 70	N/C
20 3.2 6 1.4 19 3.3 71	0.1
21 3.2 7 GND 20 2.8 72	GND
22 3.2 8 N/C 21 N/C 73	N/C
23 2.0 9 GND 22 1.7 74	1.8
24 1.1 10 GND 23 1.7 75	3.3
25 GND 11 GND 24 0.1 76	1.3
26 4.8 12 1.4 25 0.1 77	0.7
27 2.4 13 2.2 26 2.3 78	GND
28 2.4 14 3.4 27 0.1 79	2.5
29 3.2 IC3306 28 2.4 80	0.7
30 4.8 PIN VOLT 29 3.3 81	3.3
31 2.4 1 4.8 30 N/C 82	1.0
32 GND 2 GND 31 1.7 83	2.8
33 1.5 3 1.9 32 GND 84	GND
34 GND 4 3.3 33 1.6 85	1.1
35 3.3 5 1.6 34 1.3 86	GND
36 N/C 6 2.2 35 3.3 IC	3403
37 N/C 7 GND 36 1.6 PIN	VOLT
38 GND 8 N/C 37 1.7 1	N/C
39 GND 9 GND 38 GND 2	GND
40 GND 10 GND 39 0.9 3	GND
41 GND 11 GND 40 1.7 4	1.7
42 GND 12 2.3 41 3.3 5	2.5
43 GND 13 2.1 42 1.1 IC	3404
44 GND 14 4.2 43 3.3 PIN	VOLT
45 4.9 IC3401 44 GND 1	4.8
46 GND PIN VOLT 45 1.7 2	GND
47 GND I 3.3 46 GND 3	2.3
48 1.5 G GND 47 1.7 4	0.3
49 GND O 2.5 48 1.4 5	2.4
50 0.0 VC 3.3 49 3.3 6	0.9

All voltages are in V.

GND

N/C

0.0

GND

GND

0.9

3.6

4.8 IC3405 PIN VOLT 4.8

0.3

GND

0.3

4.8 IC3406 PIN VOLT 4.8

0.0

GND 0.0

4.8 IC3407 PIN

VOLT 4.8 1.0 GND 2.4

4.8

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5

B BOARD IC VOLTAGE LIST (4 OF 5)

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	408	53	1.4	107	3.3	161	0.7	215	1.0	20	0.8
PIN	VOLT	54	3.3	108	1.7	162	2.5	216	GND	21	GND
1	GND	55	GND	109	1.7	163	GND	217	GND	22	GND
2	GND	56	1.6	110	1.1	164	2.5	218	GND	23	1.4
3	N/C	57	1.6	111	1.7	165	0.7	219	GND	24	1.5
4	N/C	58	1.5	112	0.9	166	1.3	220	GND	25	1.5
5	N/C	59	1.5	113	1.7	167	1.8	221	1.2	26	1.5
6	3.3	60	1.5	114	3.3	168	0.9	222	GND	27	1.5
7	GND	61	1.4	115	GND	169	1.1	223	GND	28	1.5
8	GND	62	2.4	116	1.6	170	1.1	224	GND	29	1.5
9	0.0	63	0.9	117	1.3	171	GND	225	GND	30	1.9
10	0.2	64	0.8	118	1.6	172	GND	226	GND	31	1.6
11	0.0	65	0.9	119	1.7	173	GND	227	GND	32	1.7
12	0.0	66	3.3	120	0.0	174	3.3	228	GND	33	1.6
13	0.0	67	GND	121	2.4	175	GND	229	GND	34	GND
14	0.0	68	0.8	122	2.2	176	GND	230	GND	35	1.0
15	0.0	69	0.6	123	1.7	177	GND	231	GND	36	0.0
16	2.3	70	0.9	124	1.7	178	GND	232	GND	37	2.0
17	1.6	71	0.9	125	1.8	179	GND	233	GND	38	2.6
18	3.3	72	3.2	126	3.3	180	GND	234	GND	39	4.8
19	GND	73	3.2	127	GND	181	GND	235	GND	40	4.8
20	0.6	74	0.9	128	0.1	182	GND	236	GND	41	4.8
21	1.1	75	GND	129	0.1	183	GND	237	GND	42	1.0
22	2.2	76	3.3	130	2.3	184	GND	238	GND	43	0.0
23	2.2	77	2.5	131	0.1	185	GND	239	GND	44	0.5
24	2.4	78	GND	132	0.1	186	GND	240	GND	45	0.0
	۷.٦	70	OND	102	0.1	100	OND				0.0
25	24	79	17	133	17	187	GND	IC3	409	46	0.0
25 26	2.4	79 80	1.7	133	1.7	187 188	GND		409 VOLT	46 47	0.0
26	2.3	80	3.3	134	1.7	188	GND	PIN	VOLT	47	0.0
26 27	2.3 2.2	80 81	3.3 N/C	134 135	1.7 2.8	188 189	GND GND	PIN 	VOLT 3.3	47 48	0.0 4.8
26 27 28	2.3 2.2 1.6	80 81 82	3.3 N/C 2.5	134 135 136	1.7 2.8 GND	188 189 190	GND GND GND	PIN I G	3.3 3.3	47 48 IC3	0.0 4.8 411
26 27 28 29	2.3 2.2 1.6 0.9	80 81 82 83	3.3 N/C 2.5 2.3	134 135 136 137	1.7 2.8 GND 1.6	188 189 190 191	GND GND GND GND	PIN I G O	3.3 3.3 2.5	47 48 IC3 PIN	0.0 4.8 411 VOLT
26 27 28 29 30	2.3 2.2 1.6 0.9 GND	80 81 82 83 84	3.3 N/C 2.5 2.3 0.4	134 135 136 137 138	1.7 2.8 GND 1.6 3.3	188 189 190 191 192	GND GND GND GND GND	PIN I G O VC	3.3 3.3 2.5 3.3	47 48 IC3 PIN 1	0.0 4.8 411 VOLT 3.2
26 27 28 29 30 31	2.3 2.2 1.6 0.9 GND 1.1	80 81 82 83 84 85	3.3 N/C 2.5 2.3 0.4 0.0	134 135 136 137 138 139	1.7 2.8 GND 1.6 3.3 GND	188 189 190 191 192 193	GND GND GND GND GND 3.3	PIN I G O VC NC	3.3 3.3 2.5 3.3 0.0	47 48 IC3 PIN 1 2	0.0 4.8 411 VOLT 3.2 N/C
26 27 28 29 30 31 32	2.3 2.2 1.6 0.9 GND 1.1	80 81 82 83 84 85 86	3.3 N/C 2.5 2.3 0.4 0.0	134 135 136 137 138 139 140	1.7 2.8 GND 1.6 3.3 GND 1.5	188 189 190 191 192 193 194	GND GND GND GND GND 3.3 2.4	PIN I G O VC NC IC3	VOLT 3.3 3.3 2.5 3.3 0.0 410	47 48 IC3 PIN 1 2 3	0.0 4.8 411 VOLT 3.2 N/C 3.2
26 27 28 29 30 31 32 33	2.3 2.2 1.6 0.9 GND 1.1 1.0	80 81 82 83 84 85 86 87	3.3 N/C 2.5 2.3 0.4 0.0 0.0 2.3	134 135 136 137 138 139 140	1.7 2.8 GND 1.6 3.3 GND 1.5	188 189 190 191 192 193 194 195	GND GND GND GND GND 3.3 2.4 2.4	PIN G O VC NC IC3 PIN	VOLT 3.3 3.3 2.5 3.3 0.0 410 VOLT	47 48 IC3 PIN 1 2 3 4	0.0 4.8 411 VOLT 3.2 N/C 3.2 GND
26 27 28 29 30 31 32 33 34	2.3 2.2 1.6 0.9 GND 1.1 1.0 1.5	80 81 82 83 84 85 86 87 88	3.3 N/C 2.5 2.3 0.4 0.0 0.0 2.3 1.6	134 135 136 137 138 139 140 141 142	1.7 2.8 GND 1.6 3.3 GND 1.5 0.0	188 189 190 191 192 193 194 195	GND GND GND GND GND 3.3 2.4 2.4	PIN G O VC NC IC3 PIN 1	VOLT 3.3 3.3 2.5 3.3 0.0 410 VOLT GND	47 48 IC3 PIN 1 2 3 4 5	0.0 4.8 411 VOLT 3.2 N/C 3.2 GND 0.1
26 27 28 29 30 31 32 33 34 35	2.3 2.2 1.6 0.9 GND 1.1 1.0 1.5 1.4	80 81 82 83 84 85 86 87 88	3.3 N/C 2.5 2.3 0.4 0.0 0.0 2.3 1.6 2.5	134 135 136 137 138 139 140 141 142 143	1.7 2.8 GND 1.6 3.3 GND 1.5 0.0 2.6 3.0	188 189 190 191 192 193 194 195 196	GND GND GND GND 3.3 2.4 2.4 0.0	PIN I G O VC NC IC3 PIN 1 2	3.3 3.3 2.5 3.3 0.0 410 VOLT GND GND	47 48 IC3 PIN 1 2 3 4 5	0.0 4.8 411 VOLT 3.2 N/C 3.2 GND 0.1 3.3
26 27 28 29 30 31 32 33 34 35 36	2.3 2.2 1.6 0.9 GND 1.1 1.0 1.5 1.4 1.4 2.4	80 81 82 83 84 85 86 87 88 89	3.3 N/C 2.5 2.3 0.4 0.0 0.0 2.3 1.6 2.5 GND	134 135 136 137 138 139 140 141 142 143	1.7 2.8 GND 1.6 3.3 GND 1.5 0.0 2.6 3.0	188 189 190 191 192 193 194 195 196 197	GND GND GND GND 3.3 2.4 2.4 0.0 2.4 GND	PIN	3.3 2.5 3.3 0.0 410 VOLT GND GND 0.9	47 48 IC3 PIN 1 2 3 4 5 6 7	0.0 4.8 411 VOLT 3.2 N/C 3.2 GND 0.1 3.3 0.0
26 27 28 29 30 31 32 33 34 35 36 37	2.3 2.2 1.6 0.9 GND 1.1 1.0 1.5 1.4 2.4 1.8	80 81 82 83 84 85 86 87 88 89 90	3.3 N/C 2.5 2.3 0.4 0.0 0.0 2.3 1.6 2.5 GND 1.2	134 135 136 137 138 139 140 141 142 143 144 145	1.7 2.8 GND 1.6 3.3 GND 1.5 0.0 2.6 3.0 3.1 2.5	188 189 190 191 192 193 194 195 196 197 198	GND GND GND GND 3.3 2.4 2.4 0.0 2.4 GND	PIN	VOLT 3.3 3.3 2.5 3.3 0.0 410 VOLT GND GND 0.9 0.9	47 48 IC3 PIN 1 2 3 4 5 6 7	0.0 4.8 411 VOLT 3.2 N/C 3.2 GND 0.1 3.3 0.0
26 27 28 29 30 31 32 33 34 35 36 37 38	2.3 2.2 1.6 0.9 GND 1.1 1.0 1.5 1.4 1.4 2.4 1.8 GND	80 81 82 83 84 85 86 87 88 89 90 91	3.3 N/C 2.5 2.3 0.4 0.0 0.0 2.3 1.6 2.5 GND 1.2 3.3	134 135 136 137 138 139 140 141 142 143 144 145 146	1.7 2.8 GND 1.6 3.3 GND 1.5 0.0 2.6 3.0 3.1 2.5	188 189 190 191 192 193 194 195 196 197 198 199 200	GND GND GND GND 3.3 2.4 2.4 0.0 2.4 GND 1.0	PIN	VOLT 3.3 3.3 2.5 3.3 0.0 410 VOLT GND GND 0.9 0.9 0.6	47 48 IC3 PIN 1 2 3 4 5 6 7 8	0.0 4.8 411 VOLT 3.2 N/C 3.2 GND 0.1 3.3 0.0 3.3
26 27 28 29 30 31 32 33 34 35 36 37 38	2.3 2.2 1.6 0.9 GND 1.1 1.0 1.5 1.4 2.4 1.8 GND	80 81 82 83 84 85 86 87 88 89 90 91 92	3.3 N/C 2.5 2.3 0.4 0.0 0.0 2.3 1.6 2.5 GND 1.2 3.3 3.0	134 135 136 137 138 139 140 141 142 143 144 145 146	1.7 2.8 GND 1.6 3.3 GND 1.5 0.0 2.6 3.0 3.1 2.5 0.0	188 189 190 191 192 193 194 195 196 197 198 199 200	GND GND GND GND 3.3 2.4 2.4 0.0 2.4 GND 1.0 N/C	PIN	VOLT 3.3 3.3 2.5 3.3 0.0 410 VOLT GND GND 0.9 0.9 0.6 0.8	47 48 IC3 PIN 1 2 3 4 5 6 7 8 IC3 PIN	0.0 4.8 411 VOLT 3.2 N/C 3.2 GND 0.1 3.3 0.0 3.3 412 VOLT
26 27 28 29 30 31 32 33 34 35 36 37 38 39	2.3 2.2 1.6 0.9 GND 1.1 1.0 1.5 1.4 2.4 1.8 GND 1.4	80 81 82 83 84 85 86 87 88 89 90 91 92 93	3.3 N/C 2.5 2.3 0.4 0.0 0.0 2.3 1.6 2.5 GND 1.2 3.3 3.0 3.0	134 135 136 137 138 139 140 141 142 143 144 145 146 147	1.7 2.8 GND 1.6 3.3 GND 1.5 0.0 2.6 3.0 3.1 2.5 0.0 0.0	188 189 190 191 192 193 194 195 196 197 198 199 200 201 202	GND GND GND GND 3.3 2.4 2.4 0.0 2.4 GND 1.0 N/C 0.0	PIN G O VC NC IC3 PIN 1 2 3 4 5 6 7	VOLT 3.3 3.3 2.5 3.3 0.0 410 VOLT GND GND 0.9 0.9 0.6 0.8 0.9	47 48 IC3 PIN 1 2 3 4 5 6 7 8 IC3 PIN	0.0 4.8 411 VOLT 3.2 N/C 3.2 GND 0.1 3.3 0.0 3.3 412 VOLT 0.3
26 27 28 29 30 31 32 33 34 35 36 37 38 39 40	2.3 2.2 1.6 0.9 GND 1.1 1.0 1.5 1.4 1.4 2.4 1.8 GND 1.4 1.5	80 81 82 83 84 85 86 87 88 89 90 91 92 93 94	3.3 N/C 2.5 2.3 0.4 0.0 0.0 2.3 1.6 2.5 GND 1.2 3.3 3.0 GND	134 135 136 137 138 139 140 141 142 143 144 145 146 147 148	1.7 2.8 GND 1.6 3.3 GND 1.5 0.0 2.6 3.0 3.1 2.5 0.0 0.0 0.0	188 189 190 191 192 193 194 195 196 197 198 199 200 201 202	GND GND GND GND 3.3 2.4 2.4 0.0 2.4 GND 1.0 N/C 0.0 1.0 GND	PIN G O VC NC IC3 PIN 1 2 3 4 5 6 7 8	VOLT 3.3 3.3 2.5 3.3 0.0 410 VOLT GND GND 0.9 0.9 0.6 0.8 0.9 0.8	47 48 IC3 PIN 1 2 3 4 5 6 7 8 IC3 PIN 1 2	0.0 4.8 411 VOLT 3.2 N/C 3.2 GND 0.1 3.3 0.0 3.3 412 VOLT 0.3 5.0
26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42	2.3 2.2 1.6 0.9 GND 1.1 1.0 1.5 1.4 1.4 2.4 1.8 GND 1.4 1.5 2.4	80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95	3.3 N/C 2.5 2.3 0.4 0.0 0.0 2.3 1.6 2.5 GND 1.2 3.3 3.0 GND 3.3	134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149	1.7 2.8 GND 1.6 3.3 GND 1.5 0.0 2.6 3.0 3.1 2.5 0.0 0.9 2.8 GND	188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204	GND GND GND GND 3.3 2.4 2.4 0.0 2.4 GND 1.0 N/C 0.0 1.0 GND	PIN I G O VC NC IC3 PIN 1 2 3 4 5 6 6 7 8 9	VOLT 3.3 3.3 2.5 3.3 0.0 410 VOLT GND GND 0.9 0.9 0.6 0.8 0.9 0.8 0.9	47 48 IC3 PIN 1 2 3 4 5 6 7 8 IC3 PIN 1 2 3	0.0 4.8 411 VOLT 3.2 N/C 3.2 GND 0.1 3.3 0.0 3.3 412 VOLT 0.3 5.0 N/C
26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43	2.3 2.2 1.6 0.9 GND 1.1 1.0 1.5 1.4 1.4 2.4 1.8 GND 1.4 1.5 2.4 1.5	80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96	3.3 N/C 2.5 2.3 0.4 0.0 0.0 2.3 1.6 2.5 GND 1.2 3.3 3.0 GND 3.3 GND	134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150	1.7 2.8 GND 1.6 3.3 GND 1.5 0.0 2.6 3.0 3.1 2.5 0.0 0.9 2.8 GND	188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204	GND GND GND 3.3 2.4 2.4 0.0 2.4 GND 1.0 N/C 0.0 GND GND	PIN I G O VC NC IC3 PIN 1 2 3 4 5 6 7 8 9 10	VOLT 3.3 3.3 2.5 3.3 0.0 410 VOLT GND GND 0.9 0.9 0.6 0.8 0.9 0.8 0.9 2.4	47 48 IC3 PIN 1 2 3 4 5 6 7 8 IC3 PIN 1 2 3 4	0.0 4.8 411 VOLT 3.2 N/C 3.2 GND 0.1 3.3 0.0 3.3 412 VOLT 0.3 5.0 N/C
26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44	2.3 2.2 1.6 0.9 GND 1.1 1.0 1.5 1.4 1.4 2.4 1.8 GND 1.4 1.5 2.4 GND	80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97	3.3 N/C 2.5 2.3 0.4 0.0 0.0 2.3 1.6 2.5 GND 1.2 3.3 3.0 GND 3.3 GND 3.3	134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151	1.7 2.8 GND 1.6 3.3 GND 1.5 0.0 2.6 3.0 3.1 2.5 0.0 0.9 2.8 GND	188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206	GND GND GND 3.3 2.4 2.4 0.0 2.4 GND 1.0 N/C 0.0 GND GND N/C 2.4	PIN I G O VC NC IC3 PIN 1 2 3 4 5 6 7 8 9 10 11	VOLT 3.3 3.3 2.5 3.3 0.0 410 VOLT GND 0.9 0.9 0.6 0.8 0.9 0.8 0.9 2.4 GND	47 48 IC3 PIN 1 2 3 4 5 6 7 8 IC3 PIN 1 2 3 4 5 5 6 7 8 IC3 7 8 IC3 7 8 1 1 1 2 1 2 3 4 5 5 7 8 1 8 1 1 2 1 2 3 4 4 5 5 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8	0.0 4.8 411 VOLT 3.2 N/C 3.2 GND 0.1 3.3 0.0 3.3 412 VOLT 0.3 5.0 N/C GND
26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44	2.3 2.2 1.6 0.9 GND 1.1 1.0 1.5 1.4 1.4 2.4 1.8 GND 1.4 1.5 2.4 GND 0.8	80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97	3.3 N/C 2.5 2.3 0.4 0.0 0.0 2.3 1.6 2.5 GND 1.2 3.3 3.0 GND 3.3 GND 3.3 GND	134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152	1.7 2.8 GND 1.6 3.3 GND 1.5 0.0 2.6 3.0 3.1 2.5 0.0 0.0 0.9 2.8 GND	188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207	GND GND GND 3.3 2.4 2.4 0.0 2.4 GND 1.0 N/C 0.0 GND GND N/C 2.4 GND	PIN I G O VC NC IC3 PIN 1 2 3 4 5 6 7 8 9 10 11 12	VOLT 3.3 3.3 2.5 3.3 0.0 410 VOLT GND GND 0.9 0.9 0.6 0.8 0.9 2.4 GND GND	47 48 IC3 PIN 1 2 3 4 5 6 7 8 IC3 PIN 1 2 3 4 5 6 7 8 IC3 7 8 1 1 2 3 4 5 6 7 8 1 7 8 1 8 1 1 1 2 3 4 4 5 6 6 7 8 7 8 7 8 8 7 8 7 8 7 8 7 8 8 7 8 7	0.0 4.8 411 VOLT 3.2 N/C 3.2 GND 0.1 3.3 0.0 3.3 412 VOLT 0.3 5.0 N/C GND GND
26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46	2.3 2.2 1.6 0.9 GND 1.1 1.0 1.5 1.4 1.4 2.4 1.8 GND 1.4 1.5 2.4 GND 0.8 1.0	80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98	3.3 N/C 2.5 2.3 0.4 0.0 0.0 2.3 1.6 2.5 GND 1.2 3.3 3.0 GND 3.3 GND 3.3 1.1	134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153	1.7 2.8 GND 1.6 3.3 GND 1.5 0.0 2.6 3.0 3.1 2.5 0.0 0.0 0.9 2.8 GND 0.9 2.2 2.4	188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208	GND GND GND 3.3 2.4 2.4 0.0 2.4 GND 1.0 N/C 0.0 GND GND N/C 2.4 GND	PIN I G O VC NC IC3 PIN 1 2 3 4 5 6 7 8 9 10 11 12 13	VOLT 3.3 3.3 2.5 3.3 0.0 410 VOLT GND GND 0.9 0.9 0.6 0.8 0.9 2.4 GND GND GND GND GND	47 48 IC3 PIN 1 2 3 4 5 6 7 8 IC3 PIN 1 2 3 4 5 6 7 8 IC3 7 8 IC3 7 8 IC3 7 8 IC3 7 8 IC3 7 8 IC3 7 8 IC3 7 8 IC3 7 8 IC3 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	0.0 4.8 411 VOLT 3.2 N/C 3.2 GND 0.1 3.3 0.0 3.3 412 VOLT 0.3 5.0 N/C GND GND GND
26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47	2.3 2.2 1.6 0.9 GND 1.1 1.0 1.5 1.4 1.4 2.4 1.8 GND 1.4 1.5 2.4 GND 0.8 1.0 0.7	80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100	3.3 N/C 2.5 2.3 0.4 0.0 0.0 2.3 1.6 2.5 GND 1.2 3.3 3.0 GND 3.3 GND 3.3 GND 3.3	134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155	1.7 2.8 GND 1.6 3.3 GND 1.5 0.0 2.6 3.0 3.1 2.5 0.0 0.9 2.8 GND 0.9 2.2 2.4 0.7	188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209	GND GND GND 3.3 2.4 2.4 0.0 2.4 GND 1.0 N/C 0.0 1.0 GND GND M/C 2.4 GND 1.0	PIN I G O VC NC IC3 PIN 1 2 3 4 5 6 7 8 9 10 11 12 13 14	VOLT 3.3 3.3 2.5 3.3 0.0 410 VOLT GND GND 0.9 0.9 0.6 0.8 0.9 2.4 GND GND GND 1.2 1.1	47 48 IC3 PIN 1 2 3 4 5 6 7 8 IC3 PIN 1 2 3 4 5 6 7 8 IC3 PIN 1 5 6 7 8 8 IC3 1 7 8 1 7 8 1 7 8 1 7 8 7 8 7 8 8 7 8 7	0.0 4.8 411 VOLT 3.2 N/C 3.2 GND 0.1 3.3 0.0 3.3 412 VOLT 0.3 5.0 N/C GND GND GND GND 0.3 5.0
26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48	2.3 2.2 1.6 0.9 GND 1.1 1.0 1.5 1.4 1.4 2.4 1.8 GND 1.4 1.5 2.4 GND 0.8 1.0 0.7 2.4	80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102	3.3 N/C 2.5 2.3 0.4 0.0 0.0 2.3 1.6 2.5 GND 1.2 3.3 3.0 GND 3.3 GND 3.3 GND 3.3 GND 3.3 GND 3.5 GND GND GND GND GND GND GND GND	134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155	1.7 2.8 GND 1.6 3.3 GND 1.5 0.0 2.6 3.0 3.1 2.5 0.0 0.9 2.8 GND 0.9 2.2 2.4 0.7 1.3 2.5	188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210	GND GND GND 3.3 2.4 0.0 2.4 GND 1.0 N/C 0.0 1.0 GND GND M/C 2.4 GND 1.0 2.4 GND	PIN G O VC NC IC3 PIN 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	VOLT 3.3 3.3 2.5 3.3 0.0 410 VOLT GND GND 0.9 0.9 0.6 0.8 0.9 2.4 GND GND 1.2 1.1	47 48 IC3 PIN 1 2 3 4 5 6 7 8 IC3 PIN 1 2 3 4 5 6 7 8 IC3 PIN 1 1 2 3 4 5 6 7 8 8 1 7 8 8 8 1 7 8 7 8 8 8 8 7 8 8 8 8	0.0 4.8 411 VOLT 3.2 N/C 3.2 GND 0.1 3.3 0.0 3.3 412 VOLT 0.3 5.0 N/C GND GND GND GND GND 0.3 5.0 413
26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49	2.3 2.2 1.6 0.9 GND 1.1 1.0 1.5 1.4 1.4 2.4 1.8 GND 1.4 1.5 2.4 GND 0.8 1.0 0.7 2.4 0.9	80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103	3.3 N/C 2.5 2.3 0.4 0.0 0.0 2.3 1.6 2.5 GND 1.2 3.3 3.0 GND 3.3 GND 3.3 GND 3.3 GND 3.9 GND 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9	134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157	1.7 2.8 GND 1.6 3.3 GND 1.5 0.0 2.6 3.0 3.1 2.5 0.0 0.9 2.8 GND 0.9 2.2 2.4 0.7 1.3 2.5 1.8	188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211	GND GND GND GND 3.3 2.4 2.4 0.0 2.4 GND 1.0 N/C 0.0 1.0 GND GND A/C 2.4 GND A/C 2.4 GND A/C 2.4 GND A/C GND A/	PIN G O VC NC IC3 PIN 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 16	VOLT 3.3 3.3 2.5 3.3 0.0 410 VOLT GND GND 0.9 0.9 0.6 0.8 0.9 2.4 GND GND GND 1.2 1.1 1.0 0.9	47 48 IC3 PIN 1 2 3 4 5 6 7 8 IC3 PIN 1 2 3 4 5 6 7 8 IC3 PIN 1 2 3 7 8 8 IC3 PIN 1 1 2 3 4 5 6 7 8 8 8 8 8 8 8 8 8 8 7 8 8 8 8 8 8 8	0.0 4.8 411 VOLT 3.2 N/C 3.2 GND 0.1 3.3 0.0 3.3 412 VOLT 0.3 5.0 N/C GND GND GND GND GND 0.3 5.0 413 VOLT
26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50	2.3 2.2 1.6 0.9 GND 1.1 1.0 1.5 1.4 1.4 2.4 1.8 GND 1.4 1.5 2.4 GND 0.8 1.0 0.7 2.4 0.9	80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104	3.3 N/C 2.5 2.3 0.4 0.0 0.0 2.3 1.6 2.5 GND 1.2 3.3 3.0 GND 3.3 GND 3.3 GND 3.3 GND 3.9 GND 3.9 GND 3.9 GND 3.0 GND 3	134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158	1.7 2.8 GND 1.6 3.3 GND 1.5 0.0 2.6 3.0 3.1 2.5 0.0 0.9 2.8 GND 0.9 2.2 2.4 0.7 1.3 2.5 1.8	188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212	GND GND GND GND 3.3 2.4 0.0 2.4 GND 1.0 N/C 0.0 1.0 GND GND 1.0 GND A/C 2.4 GND 1.0 GND CO	PIN I G O VC NC IC3 PIN 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	VOLT 3.3 3.3 2.5 3.3 0.0 410 VOLT GND GND 0.9 0.9 0.6 0.8 0.9 2.4 GND GND GND 1.2 1.1 1.0 0.9 2.4	47 48 IC3 PIN 1 2 3 4 5 6 7 8 IC3 PIN 1 2 3 4 5 6 7 8 IC3 PIN 1 2 3 4 5 6 7 8 IC3 PIN 1 1 1	0.0 4.8 411 VOLT 3.2 N/C 3.2 GND 0.1 3.3 0.0 3.3 412 VOLT 0.3 5.0 N/C GND GND GND GND GND GND 0.3 5.0 413 VOLT 0.0
26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49	2.3 2.2 1.6 0.9 GND 1.1 1.0 1.5 1.4 1.4 2.4 1.8 GND 1.4 1.5 2.4 GND 0.8 1.0 0.7 2.4 0.9	80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103	3.3 N/C 2.5 2.3 0.4 0.0 0.0 2.3 1.6 2.5 GND 1.2 3.3 3.0 GND 3.3 GND 3.3 GND 3.3 GND 3.9 GND 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9	134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157	1.7 2.8 GND 1.6 3.3 GND 1.5 0.0 2.6 3.0 3.1 2.5 0.0 0.9 2.8 GND 0.9 2.2 2.4 0.7 1.3 2.5 1.8	188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211	GND GND GND GND 3.3 2.4 2.4 0.0 2.4 GND 1.0 N/C 0.0 1.0 GND GND A/C 2.4 GND A/C 2.4 GND A/C 2.4 GND A/C GND A/	PIN G O VC NC IC3 PIN 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 16	VOLT 3.3 3.3 2.5 3.3 0.0 410 VOLT GND GND 0.9 0.9 0.6 0.8 0.9 2.4 GND GND GND 1.2 1.1 1.0 0.9	47 48 IC3 PIN 1 2 3 4 5 6 7 8 IC3 PIN 1 2 3 4 5 6 7 8 IC3 PIN 1 2 3 7 8 8 IC3 PIN 1 1 2 3 4 5 6 7 8 8 8 8 8 8 8 8 8 8 7 8 8 8 8 8 8 8	0.0 4.8 411 VOLT 3.2 N/C 3.2 GND 0.1 3.3 0.0 3.3 412 VOLT 0.3 5.0 N/C GND GND GND GND GND 0.3 5.0 413 VOLT

All voltages are in V.

0.1 0.3 GND

GND GND 5.0

0.0 5.0

0.0

0.0

0.0

0.0 4.9

5.0 3.1 GND 3.1

> 3.1 5.0

> 4.6

GND

4.6

5.0

8.9

4.6 GND 4.6

6

10

11 12

13

14

15

16 IC3414 VOLT

PIN

6

8

10

11

12

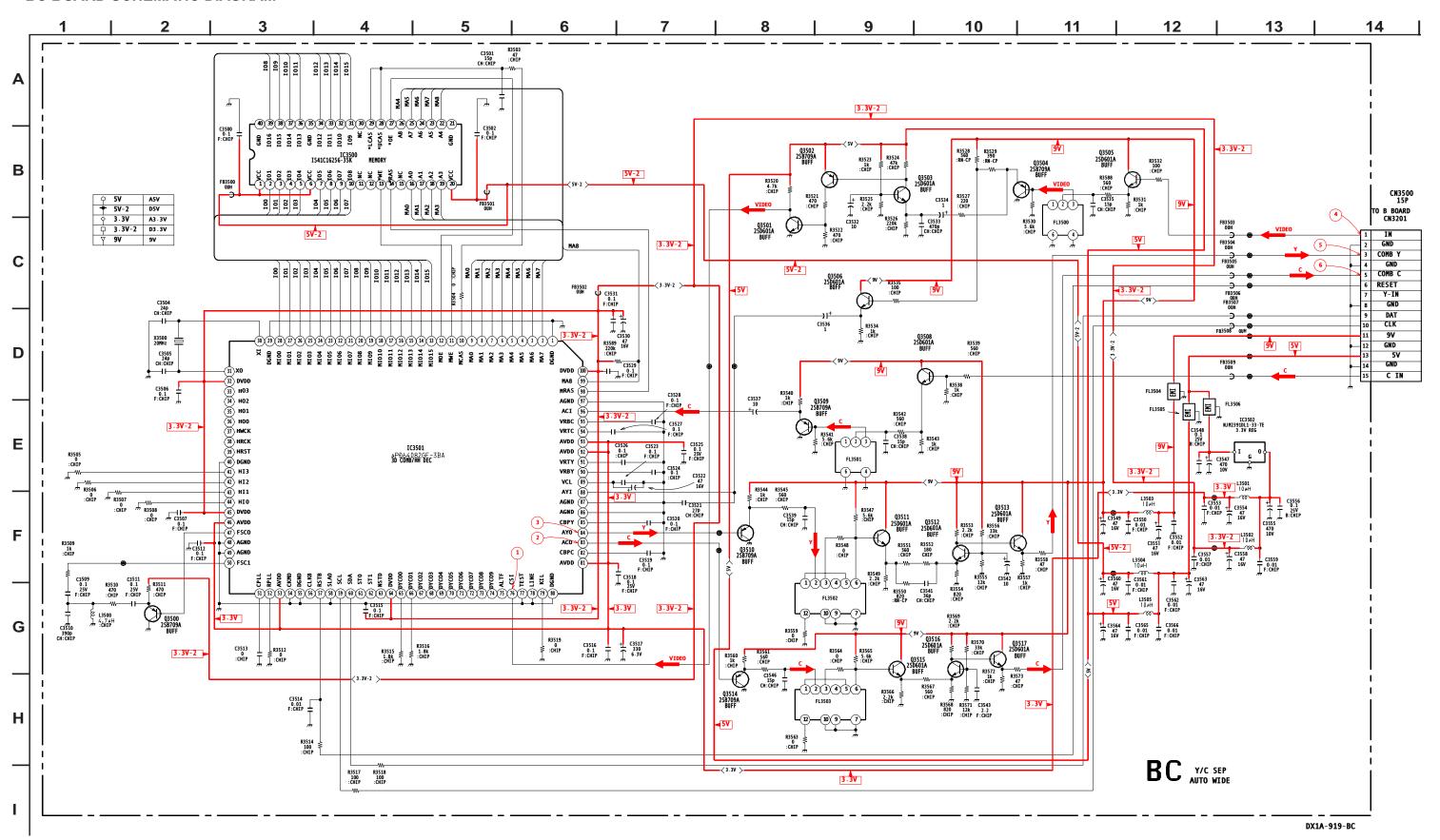
13

14

B BOARD IC VOLTAGE LIST (5 OF 5)

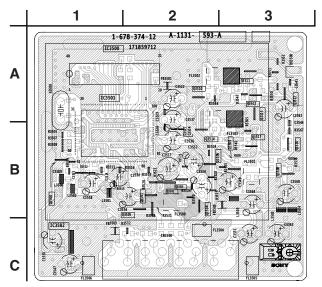
		_	_		, -
IC3	601	54	N/C	43	GND
PIN	VOLT	55	N/C	44	N/C
1	N/C	56	N/C	45	N/C
2	N/C	57	N/C	46	N/C
3	N/C	58	N/C	47	N/C
4	N/C	59	N/C	48	4.6
5	N/C	60	N/C	49	N/C
6	N/C	61	N/C	50	4.6
7	0.2	62	N/C	51	N/C
8	0.1	63	N/C	52	N/C
9	4.9	64	N/C	53	N/C
10	GND	IC3	602	54	N/C
11	2.4	PIN	VOLT	55	GND
12	2.1	1	N/C	56	GND
13	GND	2	N/C	57	GND
14	GND	3	N/C	58	GND
15	GND	4	N/C	59	GND
16	4.9	5	N/C	60	GND
17	4.9	6	N/C	61	N/C
18	GND	7	0.2	62	N/C
19	GND	8	0.1	63	N/C
20	1.6	9	4.9	64	N/C
21	2.4	10	GND		603
22	1.5	11	2.4	PIN	VOLT
23	4.9	12	2.2	1	4.9
24	0.0	13	GND	2	GND
25	N/C	14	GND	3	4.9
26	N/C	15	GND	4	1.4
27	N/C	16	4.9	5	4.9
28	N/C	17	GND	6	1.9
29	N/C	18	GND	7	1.6
30	N/C	19	GND	8	GND
31	0.0	20	1.7	9	4.6
32	0.0	21	2.5	10	4.6
33	0.0	22	2.5	11	4.9
34	0.0	23	4.9	12	2.6
35	N/C	24	2.4	13	2.4
36	0.0	25	N/C	14	GND
37	N/C	26	N/C	15	0.1
38	2.4	27	N/C	16	0.1
39	2.4	28	N/C		604
40	4.9	29	N/C	PIN	VOLT
41	4.9	30	N/C	1	0.1
42	GND	31	0.0	2	0.1
43	GND	32	0.0	3	2.5
44	N/C	33	0.0	4	GND
45	N/C	34	0.0	5	2.5
46	N/C	35	N/C	6	0.0
47	N/C	36	0.0	7	0.0
48	4.6	37	N/C	8	5.0
49	N/C	38	2.4		
50	4.6	39	2.4	Ali Voltaç	ges are in V.
51	4.6 N/C	40	4.9		
52	N/C	40	4.9		
53	N/C	42	GND		

BC BOARD SCHEMATIC DIAGRAM

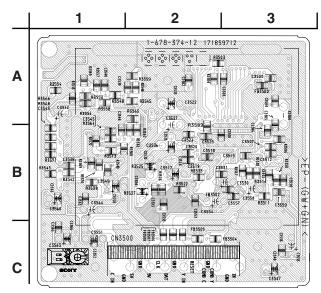




COMPONENT SIDE



CONDUCTOR SIDE



BC BOARD LOCATOR LIST

I	С	Q3506	B-3
IC3500	A-1	Q3508	B-3
IC3501	A-1	Q3509	B-3
IC3502	C-1	Q3510	A-2
TRANS	SISTOR	Q3511	A-3
Q3500	B-1	Q3512	A-3
Q3501	B-2	Q3513	A-3
Q3502	B-2	Q3514	B-2
Q3503	B-2	Q3515	A-3
Q3504	B-2	Q3516	B-3
Q3505	C-2	Q3517	B-3

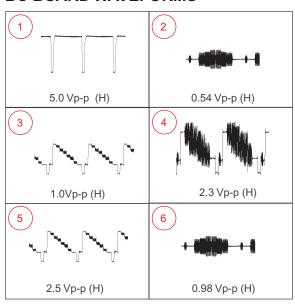
BC BOARD TRANSISTOR VOLTAGE LIST

	В	С	Е		В	С	Е
Q3500	1.7	GND	2.3	Q3510	1.7	GND	2.3
Q3501	0.1	4.2	GND	Q3511	2.9	8.9	2.3
Q3502	4.6	0.4	4.9	Q3512	2.3	6.1	1.7
Q3503	3.3	4.7	4.0	Q3513	6.1	8.9	5.5
Q3504	2.9	GND	3.5	Q3514	1.6	GND	2.3
Q3505	3.8	8.9	3.2	Q3515	2.9	8.9	2.3
Q3506	6.0	8.9	5.3	Q3516	2.3	6.4	1.7
Q3508	2.4	8.9	1.8	Q3517	6.4	8.9	5.7
Q3509	1.6	GND	2.3			All voltag	ges are in V.

BC BOARD IC VOLTAGE LIST

IC3	500	18	1.5	37	1.8	14	2.5	33	N/C	52	0.0	71	N/C	90	0.9
PIN	VOLT	19	1.5	38	1.8	15	1.3	34	N/C	53	3.2	72	N/C	91	1.6
1	4.8	20	4.8	39	1.8	16	1.2	35	N/C	54	GND	73	N/C	92	3.2
2	2.0	21	N/C	40	N/C	17	1.9	36	N/C	55	GND	74	N/C	93	3.2
3	2.0	22	1.5	IC3	501	18	1.8	37	N/C	56	N/C	75	N/C	94	3.2
4	1.8	23	1.5	PIN	VOLT	19	1.9	38	N/C	57	5.0	76	4.1	95	2.0
5	1.9	24	1.5	1	GND	20	1.8	39	N/C	58	GND	77	GND	96	2.6
6	4.8	25	1.5	2	1.5	21	0.9	40	GND	59	4.5	78	GND	97	GND
7	1.0	26	1.5	3	1.5	22	8.0	41	0.0	60	4.5	79	0.0	98	0.5
8	1.4	27	2.4	4	1.5	23	1.4	42	0.0	61	N/C	80	GND	99	1.5
9	1.1	28	1.0	5	1.5	24	1.0	43	0.0	62	N/C	81	3.2	100	3.2
10	8.0	29	1.0	6	1.5	25	1.8	44	0.0	63	N/C	82	1.0	IC	3502
11	N/C	30	N/C	7	1.5	26	1.8	45	3.2	64	3.2	83	1.6	PIN	VOLT
12	N/C	31	1.9	8	1.5	27	1.3	46	3.2	65	0.0	84	1.7		4.8
13	2.9	32	2.5	9	1.5	28	2.0	47	1.7	66	0.0	85	1.0	G	GND
14	0.5	33	1.3	10	1.0	29	GND	48	GND	67	N/C	86	GND	0	3.3
15	N/C	34	1.2	11	2.8	30	1.4	49	GND	68	N/C	87	GND	All volta	ages are in V.
16	1.5	35	N/C	12	2.4	31	1.5	50	1.4	69	N/C	88	1.3		
17	1.5	36	1.9	13	1.9	32	3.2	51	0.0	70	N/C	89	0.5		

BC BOARD WAVEFORMS



C BOARD SCHEMATIC DIAGRAM 10 11 12 Α Λ 09004 2SD601A BLK-LMT 09005 2SD601A BLK-LMT В C9035 100 R9077 16V 1k 12V IC9002 TDA61110/N4 GREEN-VIDEO-OUT GREEN . OUT D R9019 3.9k :CHIP R9083 39k R9018 C9009 4.7k 4p :CHIP CH:CHIP **-**■12V C9010 L 4p CH:CHIP CN9004 1P R9010 10k F TO CRT R9068 T50k 25V ₹ R9065 4.7k G C CRT DRIVE RGB DRIVE Н DX1A-919-C

2.0 Vp-p (H)

2.1 Vp-p (H)

C BOARD WAVEFORMS

2.4 Vp-p (H)

C BOARD TRANSISTOR VOLTAGE LIST

В	C	Е
7.5	0.0	3.6
0.2	11.1	GND
2.1	12.0	4.0
2.1	12.0	3.2
3.2	12.0	2.1
5.4	12.0	4.8
4.0	GND	4.6
3.2	GND	4.0
4.7	GND	3.9
5.4	10.5	4.8
11.7	450.0	11.1
	7.5 0.2 2.1 2.1 3.2 5.4 4.0 3.2 4.7 5.4	7.5 0.0 0.2 11.1 2.1 12.0 2.1 12.0 3.2 12.0 5.4 12.0 4.0 GND 3.2 GND 4.7 GND 5.4 10.5

All voltages are in V.

C BOARD IC VOLTAGE LIST

IC9	0001	IC9	002	IC9003		
PIN	VOLT	PIN	VOLT	PIN	VOLT	
1	3.5	1	3.5	1	3.5	
2	12.0	2	12.0	2	12.0	
3	3.5	3	3.5	3	3.5	
4	GND	4	GND	4	GND	
5	8.7	5	8.6	5	7.8	
6	198.5	6	198.5	6	198.5	
7	17.9	7	115.0	7	147.0	
8	150.0	8	154.0	8	150.0	
9	118.2	9	114.0	9	115.0	
				A.II	Managa ang in \/	

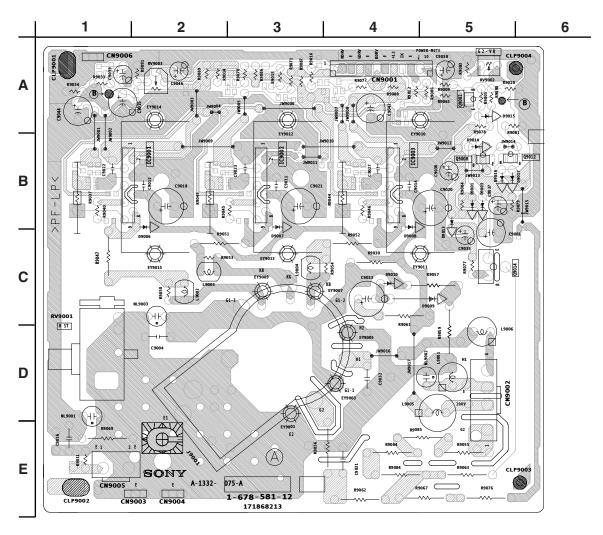
All voltages are in V.

114.1 Vp-p (H)

135.0 Vp-p (H)

123.1 Vp-p (H)



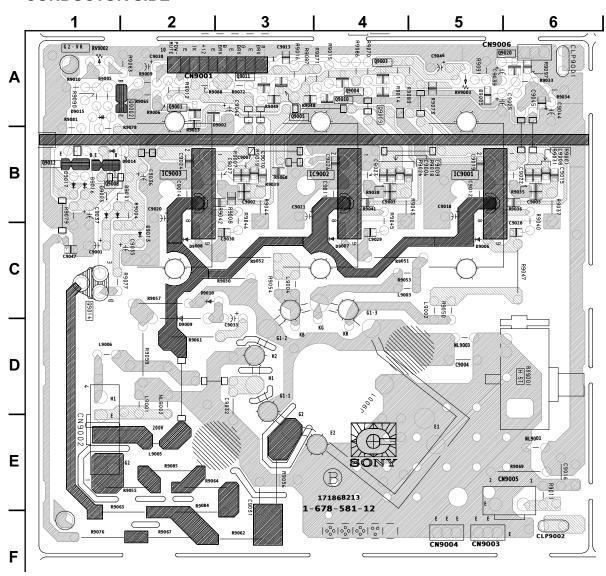


C BOARD LOCATOR LIST (COMPONENT SIDE)

DIC	DE	D9016	B-6
D9001	B-6	D9017	B-6
D9003	B-6	IC	;
D9007	C-3	IC9001	B-2
D9008	C-5	IC9002	B-3
D9009	D-5	IC9003	B-5
D9010	C-5	TRANS	ISTOR
D9013	C-5	Q9002	A-5
D9014	B-6	Q9014	C-6
D9015	A-6		



CONDUCTOR SIDE



C BOARD LOCATOR LIST (CONDUCTOR SIDE)

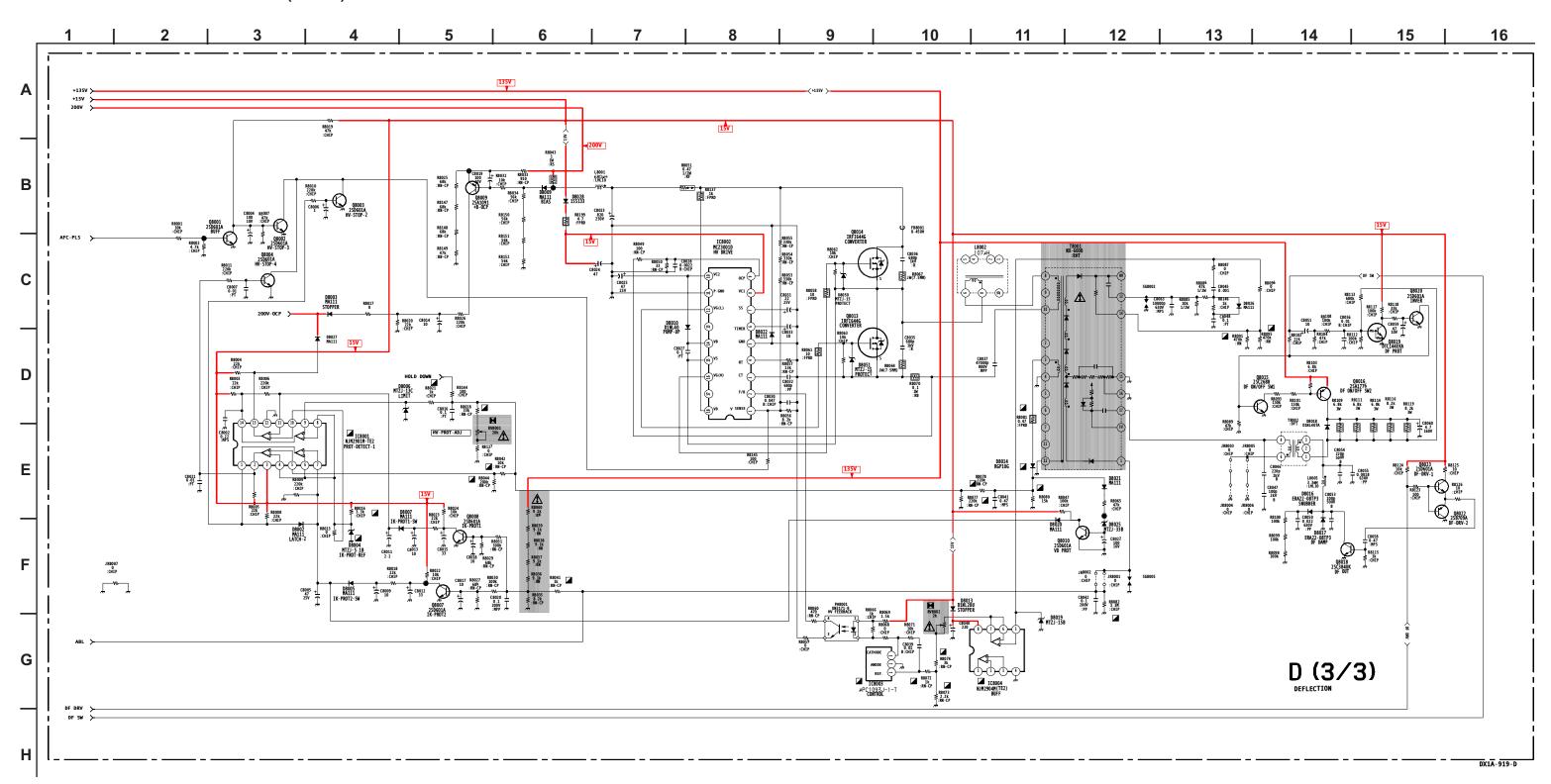
DIC	DE	Q9004	A-4						
D9002	A-2	Q9005	A-3						
D9005	A-5	Q9008	B-1						
D9006	C-5	Q9009	A-4						
TRANS	SISTOR	Q9010	A-4						
Q9001	A-2	Q9011	A-3						
Q9003	A-4	Q9012	B-1						

DX1A-919-D

D BOARD SCHEMATIC DIAGRAM (1 OF 3) 10 11 13 5 8 9 12 14 15 | D6516 D45B56-F AU RECT P56502 1CP N70 3300 CF N70 35V Α FB6508 FB6509 0.45UH 0.45UH R6646 R6514 R6513 Q6503 330k 330k 330k :RN :RN :RN PROT FB6506 52L60F 220 OUH 200V-RECT 250V В C6510 0.1 :PT R6531 D6502 10 UF4005 :FPRD R6556 C6532 0.05 56000p 2W 800V R6535 10k :CHIP CINS503 SP SMICEO TO A BOARD 6 AUDIO 24V 7 AUDIO 24V 6 AUDIO GND 5 AUDIO GND 4 AUDIO FROT 3 SET ON 2 SUB 7V 1 P-SM(-) AC OUT 10k | Q6524 | 25A1309A | OCP LATCH | | B OCP | CHIP R6614 3.3 1/2M :FPRD 1-1-2 AC RECT+ (BOOHA) (15V) (BSS4 1 15V) (BSS R6557 100k :CHIP PRI 15V SUB7V > PRI 15V PRI 15V SUB 7V D AC RLY MAIN RLY IC6503 DM-58 CONTROL NORMAL Ε R6506 0.47 FPRD 85515 25776A 110701 100701 100 06527 25D2114 R6509 4.7k :CHIP R6550 R6527 4.7k 68k \$:CHIP \$:CHIP 06528 2SD601A VC-SW-2 10k 10k R6530 4.7k :CHIP MAIN 12V MAIN 5V MAIN 9V MAIN 9V D (1/3) D6501 MA111 CN6506 8P BOARD CN703 CLKO/B CLK DATO/B DAT POWER SUPPLY AC RECT G CLKO/B CLK PRI 15V PROT1 NVM5V 33V

D BOARD SCHEMATIC DIAGRAM (2 OF 3) 10 13 14 | 15 | 16 | 17 | 18 | 19 | 12 | 20 21 | DF DRV > DF SW > AFC-PLS >--+15V C5612 +1 10 T C5508 25\ 0.01 F:CHIP + C5511 100 16V OUTPUT MUTE ## CSS60 | SCHIP | SCH IC5510 LA6500-FA NS-OUT IC5008 BA51W12ST-V5 5V/9V-REG D5029 MA111 IC5501 H24C04-HN6T (A) NVM R5679 15V 16V 15FPRD 2 S6801 1FPRD 2 FPRD 2 FPRD 2 FPRD 2 FPRD 3 R5615 15 R5627 1800 184 - CP 1800 15k 184 - CP 1800 15k 184 - CP 185700 15k 184 - CP 185700 15k 184 - CP 185700 185 - 284 - 28 C5623 100 16V ₹ R5122 10k 10h 177 C55592 0.1 B:CHIP MAIN 5V C5102 +1 47 25V T R5514 0 :CHIP C5617 C5616 1 47 C5616 1 47 C5616 1 16V C5616 MAIN 12V TO A BOARD CN706 CN5501 8P R5576 15 :FPRD And Color R5003 D5004 D7.128 C5001 10km CLAMP CL D5031 UDZS-10B 05006 250601A LATCH-1 R5004 120k : CHIP R5007 120k : CHIP CN5506 11P :B-TO-B FOR JIG R5588 2.2 1W :RS 7)/ R5028 47k : RN-CP HOLD DOWN D5003 ERC91-02 FB5001 DUMPER 1.1UH 25C1688 200V REG1 25C1688 200V REG1 25C1688 200V REG2 25C1688 200V REG2 25C1688 25 12 N/S COIL + 11 N/S COIL 10 NC 9 135V 8 NC 7 E 6 QP5 NC 4 QP+ 3 NC 2 V PIN+ 1 V PIN-E 8 # DAT1/S DAT CLK1/S CLK R5521 R5527 10k 4.7k :CHIP :CHIP R5512 4.7k :CHIP CN5503 10P | Colip | Coli R5710 270 1W : RS ABL S V TIM V DRV+ V DRV-N/S V PIN EW DRV CN5509 12P RED :S-MICRO TO W BOARD CN9102 | D5007 | D5010 | R5058 | R505 DF PARA 9 TO A BOARD CN201 C5030 C5030 R5063 R5064 R5065 240k 240k 240k 240k 240k 2777 RM-CP CN5505 10P H CENT H DRV | R5080 | R5081 | R5083 | R50 C5027 4.7 R5059 4.7k :CHIP V COMP IN H COMP IN E V PROT H PROT TIC5007 NJM2901H-TE2 H-PROT-CONT1 S08 RTZI-18 RS113 RS114 RS115 RS117 RS117 RS117 RS118 | Solity | S VEE VCC SNA-CP ₹ R5086 4.7k : CHIP R5158 4.7k : CHIP R5087 4.7k : CHIP <u>ل</u> Q5037 2SD601A S-COR-BUFFER D5012 RGP02-20EL G2-RECT C5034 0.0047 (SO20) (S D (2/3) R5130 R5130 CMIP R5130 CMIP R5130 CMIP R5150 CMIP C0071 SCHIP C5071 CMIP C5071 CMIP C5071 CMIP A50801A TORONO H DRIVE CMIP No. C5064 C1 0.68 0.5 2500 75 1MPP C5065 R5146 400V 1.CHIP :MPP CAUTION R5020 5 · 6k : RN-CP IC5004 HEAT SINK IS -15V CARE MUST Wy R5147 3.3k :RN-CP TH5001 BE TAKEN NOT TO ALLOW HEAT SINK R5043 4.7k ≸ :RN-CP R5599 10k : CHIP C5080 0.022 :PT :PT :PT TO TOUCH ANY OTHER COMPONENTS CH50033 49 HINI (LUCK) TO C BOARD CH9002 DX1A-919-D CN5002 6P :DY (-),AG·A TO DY (+),AG/H

D BOARD SCHEMATIC DIAGRAM (3 OF 3)



COMPONENT SIDE 10 11 >EP-(GW+GN) < SONY D COLD Ε G DER (GW+GN)

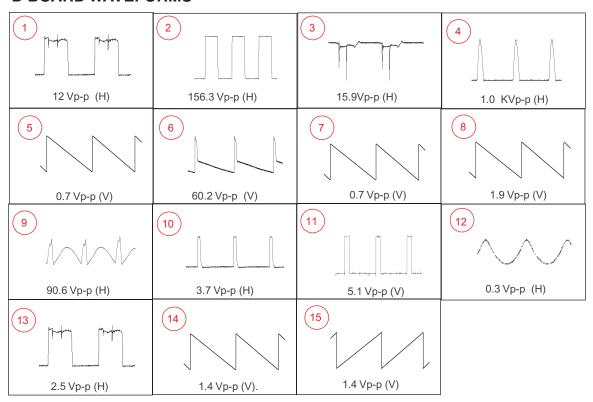
D BOARD LOCATOR LIST (COMPONENT SIDE)

DIC	DE	D8028	F-7
D5001	D-12	D8050	H-6
D5002	D-12	D8051	F-6
D5003	D-7	IC	
D5006	I-2	IC5004	D-11
D5007	H-2	IC5005	D-9
D5011	D-9	IC5006	E-7
D5012	D-10	IC5504	H-2
D5013	D-7	IC5506	F-1
D5014	C-8	IC5510	G-4
D5015	D-8	IC5511	I-2
D5016	C-9	IC5512	H-3
D5017	D-9	IC5513	H-3
D5018	B-11	IC5514	G-3
D5023	B-10	IC5515	H-4
D5024	E-7	IC6501	C-4
D5025	A-3	IC6503	E-2
D5513	H-2	IC6505	E-2
D5514	H-2	IC8002	G-7
D5515	H-2	IC8003	F-8
D5522	H-3	TRANS	ISTOR
D5523	H-3	Q5003	D-7
D6502	C-5	Q5004	F-7
D6508	E-2	Q5030	B-9
D6509	C-4	Q5031	B-11
D6510	C-3	Q5507	G-2
D6513	F-3	Q6507	B-5
D6514	G-6	Q6521	E-1
D6515	F-4	Q6522	E-1
D6516	D-2	Q6524	E-1
D6517	F-4	Q8009	G-6
D6532	C-2	Q8013	G-6
D8004	I-5	Q8014	G-6
D8006	I-5	Q8015	F-11
D8017	F-11	Q8018	F-11
D8018	G-12		
D8019	F-9		
D8025	I-6		

D BOARD LOCATOR LIST (CONDUCTOR SIDE)

DIO	DE	D8021	I-6	Q5033	B-4
D5004	E-6	D8022	G-6	Q5034	B-4
D5005	F-6	D8026	G-5	Q5035	B-4
D5008	H-12	D8027	G-8	Q5036	B-5
D5009	H-12	IC		Q5037	A-5
D5010	H-11	IC5001	B-5	Q5501	H-10
D5019	B-3	IC5002	A-6	Q5502	H-10
D5021	B-6	IC5003	C-7	Q5503	H-10
D5026	B-4	IC5007	A-5	Q5504	H-11
D5027	B-4	IC5008	A-7	Q5505	H-11
D5028	B-4	IC5501	A-6	Q5506	H-12
D5029	C-7	IC5502	H-11	Q5508	H-11
D5031	H-10	IC8001	I-8	Q5509	H-11
D5032	E-4	IC8004	F-4	Q6503	D-10
D5501	I-12	TRANS	ISTOR	Q6506	D-7
D5502	I-11	Q5001	B-7	Q6520	F-11
D5503	I-12	Q5002	B-7	Q6526	C-10
D5505	A-6	Q5005	D-2	Q6527	D-11
D5506	H-11	Q5006	I-11	Q6528	D-9
D5507	B-5	Q5007	I-11	Q6529	D-11
D6501	D-11	Q5008	G-12	Q6530	D-11
D6507	B-8	Q5011	A-6	Q6531	D-10
D6522	E-11	Q5012	E-4	Q6532	D-11
D6530	C-10	Q5013	E-4	Q8001	H-8
D6531	C-11	Q5014	E-4	Q8002	H-8
D6533	D-11	Q5015	E-5	Q8003	H-8
D6537	E-11	Q5016	E-5	Q8004	H-8
D8002	I-8	Q5017	E-4	Q8007	H-8
D8003	I-8	Q5018	B-5	Q8008	I-8
D8005	I-8	Q5019	B-1	Q8010	I-7
D8007	I-8	Q5020	B-2	Q8016	F-1
D8009	G-7	Q5021	B-2	Q8019	F-1
D8010	G-6	Q5022	B-2	Q8020	F-2
D8013	F-4	Q5023	A-4	Q8022	F-4
D8014	I-6	Q5026	C-6	Q8023	F-4
D8016	F-2	Q5027	C-6		
D8020	I-7	Q5028	C-7]	

D BOARD WAVEFORMS



D BOARD TRANSISTOR VOLTAGE LIST

	В	С	Е		В	С	Е		В	С	Е
05004		-	_	05007	_	-	_	00500			_
Q5001	2.9	12.0	3.3	Q5027	5.2	0.0	5.2	Q6528	0.6	0.0	0.0
Q5002	2.9	GND	3.3	Q5030	132.0	0.0	GND	Q6529	0.0	5.9	0.0
Q5003	127.4	134.1	23.3	Q5033	10.0	1.4	10.5	Q6530	4.7	0.0	4.7
Q5004	132.0	0.0	133.0	Q5034	0.0	1.4	GND	Q6531	0.6	0.0	GND
Q5005	-0.5	15.6	0.1	Q5035	0.0	2.5	GND	Q6532	0.0	4.7	GND
Q5006	-12.0	1.0	-11.9	Q5036	0.1	5.2	GND	Q8001	0.1	0.0	GND
Q5007	0.3	-11.9	0.9	Q5037	3.1	12.1	3.7	Q8002	0.0	1.6	GND
Q5008	11.9	0.0	10.7	Q5501	0.3	3.0	GND	Q8003	0.2	1.6	GND
Q5011	0.1	3.9	GND	Q5502	0.5	5.4	GND	Q8004	0.0	1.6	GND
Q5012	3.7	97.7	3.2	Q5503	0.5	0.3	GND	Q8007	0.6	0.0	GND
Q5013	3.1	GND	3.7	Q5504	0.0	4.0	GND	Q8008	0.6	0.0	GND
Q5014	6.6	12.1	6.1	Q5505	0.0	4.2	GND	Q8009	196.0	0.0	196.0
Q5015	202.8	212.4	203.2	Q5506	0.3	2.3	GND	Q8010	0.6	0.0	GND
Q5016	203.2	212.4	202.6	Q5508	4.0	12.1	4.6	Q8015	0.5	0.0	GND
Q5017	6.5	164.8	6.1	Q5509	4.0	GND	4.6	Q8016	134.5	134.7	135.1
Q5018	0.6	1.9	GND	Q6503	0.0	2.5	0.0	Q8018	-5.5	94.4	GND
Q5019	3.7	12.1	2.9	Q6520	131.0	0.0	132.0	Q8019	3.5	0.0	GND
Q5020	3.7	GND	2.9	Q6521	0.0	2.1	GND	Q8020	0.0	0.5	GND
Q5021	0.4	9.0	0.5	Q6522	15.7	0.0	15.7	Q8022	4.6	GND	4.9
Q5022	0.4	GND	1.1	Q6524	2.1	0.4	4.9	Q8023	4.6	15.5	4.9
Q5023	0.4	3.9	GND	Q6526	5.9	0.0	5.9			All voltage	es are in V.

	D	G	S		D	G	S
Q5028	5.2	33.5	GND	Q6507	154.4	303.3	150.0
Q5031	2.9	12.6	GND	Q8013	4.6	94.8	0.0
Q5507	5.4	6.9	GND	Q8014	99.0	198.0	93.2
Q6506	4.7	149.2	0.0	All voltages are in V.			

Q6527

5.2

Q5026

5.2

12.1

0.6

0.0

0.0

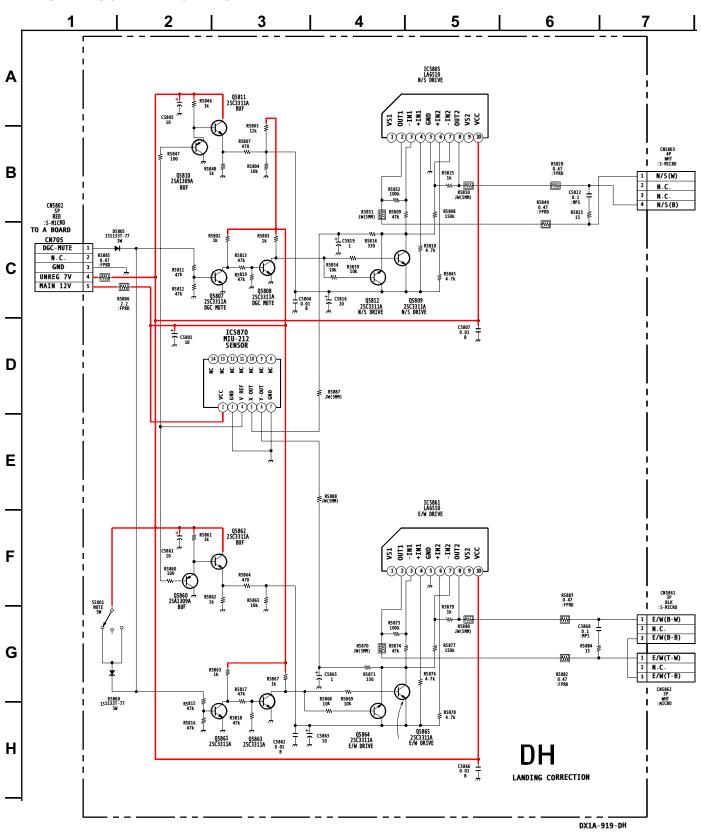
D BOARD IC VOLTAGE LIST

104.6

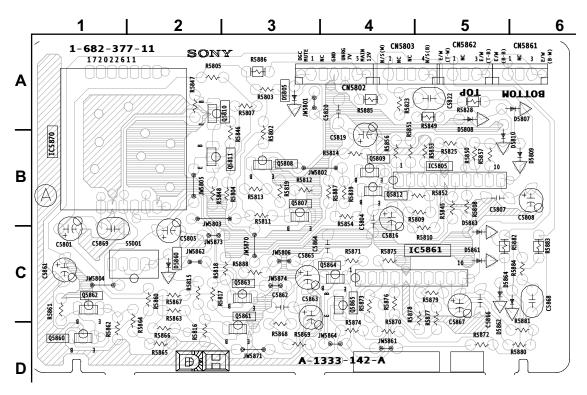
ICS	5001	IC5	006	IC5	502	IC5	511	7	N/C	6	0.0	11	0.1
PIN	VOLT	PIN	VOLT	PIN	VOLT	PIN	VOLT	8	5.0	7	4.0	12	GND
1	11.0	- 1	7.8	1	5.4	1	4.6	9	5.0	8	17.2	13	0.1
2	11.0	G	GND	2	2.4	2	4.6	10	12.1	9	GND	14	0.1
3	N/C	0	6.3	3	12.1	3	N/C	11	4.0	10	10.4	IC8	002
4	GND	VC	N/C	4	3.6	4	4.2	12	5.0	11	0.0	PIN	VOLT
5	4.0	IC5	007	5	3.4	5	9.0	13	5.0	12	4.6	1	1.6
6	4.0	PIN	VOLT	6	3.4	6	3.7	14	0.5	13	N/C	2	1.8
7	6.6	1	3.1	7	3.9	7	GND	15	1.1	14	163.6	3	2.2
8	12.1	2	0.6	8	N/C	8	5.4	16	4.6	15	153.5	4	2.5
IC5	5002	3	12.1	9	N/C	9	1.9	17	4.6	16	157.6	5	GND
PIN	VOLT	4	1.5	10	0.0	10	0.3	18	GND	17	N/C	6	0.0
1	0.1	5	2.3	11	0.0	11	4.4	IC5	514	18	N/C	7	4.7
2	6.0	6	5.5	12	GND	12	6.4	PIN	VOLT	IC6	503	8	14.8
3	3.8	7	3.5	13	3.7	13	N/C	1	0.3	PIN	VOLT	9	0.0
4	GND	8	0.0	14	N/C	14	8.2	2	0.3	1	134.0	10	10.4
5	2.3	9	3.0	IC5	504	15	1.9	3	-12.0	2	N/C	11	GND
6	3.7	10	1.4	PIN	VOLT	16	4.0	4	0.7	3	2.5	12	4.5
7	2.9	11	6.1	1	4.2	17	4.9	5	9.0	4	12.5	13	N/C
8	12.1	12	GND	2	4.2	18	N/C		515	5	GND	14	108.2
	5003	13	2.5	3	GND	19	3.6	PIN	VOLT		505	15	98.3
PIN	VOLT	14	0.6	4	6.4	20	9.0	1	3.4	PIN	VOLT	16	102.6
I	15.6	IC5	8008	5	9.0	21	0.9	2	3.4	1	134.9	17	N/C
G	GND	PIN	VOLT	IC5	506	22	N/C	3	-0.2	2	15.7	18	198.0
0	12.1	1	9.1	PIN	VOLT	IC5	512	4	-15.3	3	GND	IC8	003
	5004	2	12.0	1	4.3	PIN	VOLT	5	GND		001	PIN	VOLT
PIN	VOLT	3	GND	2	4.3	I	-15.8	6	12.0	PIN	VOLT	1	2.4
1	1.2	4	5.0	3	-15.5	G	GND	7	-14.5	1	0.1	2	GND
2	15.6	5	5.2	4	5.2	0	-12.0	8	2.7	2	0.0	3	11.0
3	-12.6	IC5	501	5	9.0		513	9	GND	3	15.6		004
4	-14.5	PIN	VOLT		510	PIN	VOLT		501	4	5.0	PIN	VOLT
5	0.2	1	GND	PIN	VOLT	1	4.5	PIN	VOLT	5	4.3	1	N/C
6	16.2	2	5.0	1	0.6	2	4.9	1	2.5	6	5.0	2	N/C
7	1.2	3	5.0	2	0.6	3	4.9	2	1.8	7	0.0	3	N/C
	5005	4	GND	3	-11.9	4	4.6	3	2.2	8	5.0	4	GND
PIN	VOLT	5	4.6	4	2.4	5	5.0	4	2.5	9	4.2	5	7.1
1	100.0	6	4.6	5	12.1	6	5.0	5	GND	10	5.0	6	7.1
2	99.7	7	5.0									7	7.1
3	-95.3	8	5.0									8	15.2
4	100.0											All voltag	ges are in V.

All voltages are in V.

DH BOARD SCHEMATIC DIAGRAM







DH BOARD IC VOLTAGE LIST

9

10

N/C

6.4

9 10

IC5	805	IC5861		IC5870		11	N/C
PIN	VOLT	PIN	VOLT	PIN	VOLT	12	N/C
1	N/C	1	N/C	1	N/C	13	N/C
2	2.5	2	3.0	2	12.0	14	N/C
3	2.4	3	2.8	3	GND	А	ll voltages are
4	2.6	4	3.0	4	2.5		
5	GND	5	GND	5	0.9		
6	2.6	6	3.0	6	2.6		
7	2.6	7	3.0	7	GND		
8	2.6	8	3.0	8	N/C		

ages are in V.

DH BOARD TRANSISTOR VOLTAGE LIST

GND

6.4

9

10

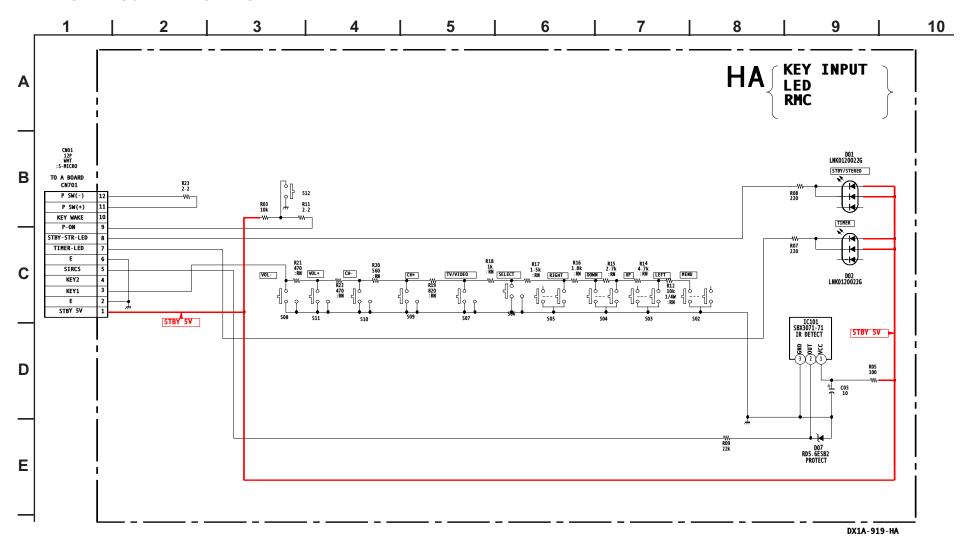
N/C

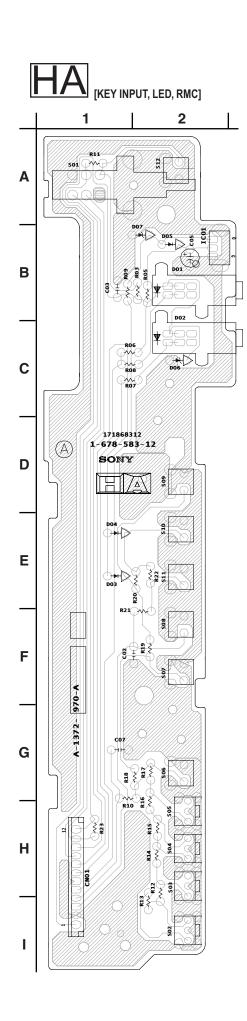
N/C

	В	С	Е		В	С	E
Q5807	0.7	0.1	GND	Q5860	2.5	GND	3.2
Q5808	0.0	10.6	GND	Q5861	0.7	0.1	GND
Q5809	3.2	2.6	2.6	Q5862	3.2	6.3	2.6
Q5810	2.5	GND	3.2	Q5863	0.0	10.6	GND
Q5811	3.2	6.4	2.5	Q5864	3.6	2.9	2.9
Q5812	3.2	2.5	2.6	Q5865	3.7	3.0	3.0

All voltages are in V.

HA BOARD SCHEMATIC DIAGRAM





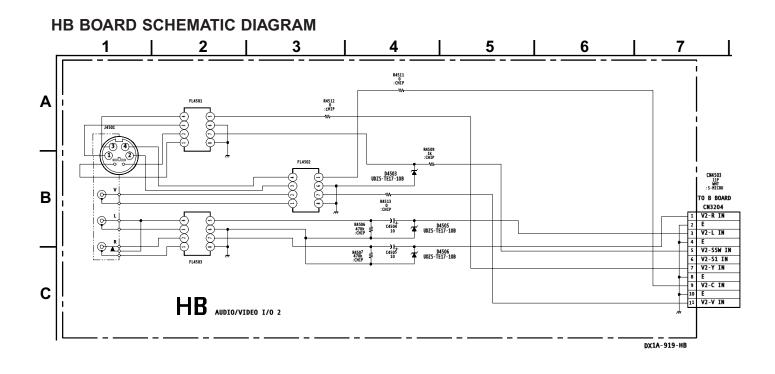
HA BOARD IC VOLTAGE LIST

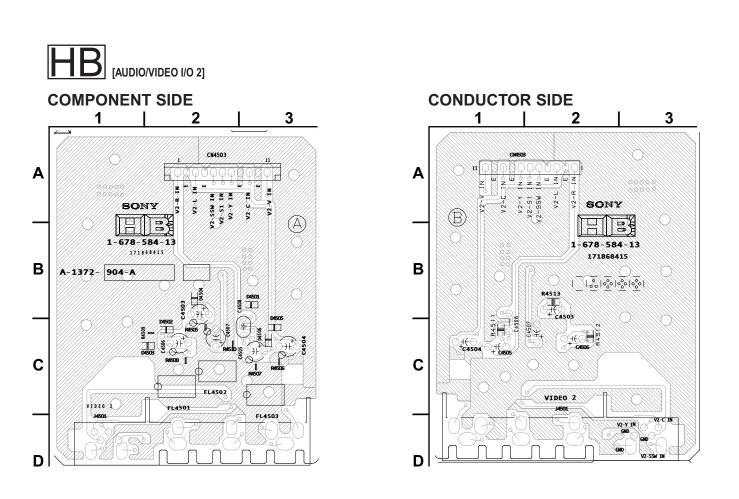
IC101					
PIN	VOLT				
1	4.9				
2	0.0				
3	4.3				

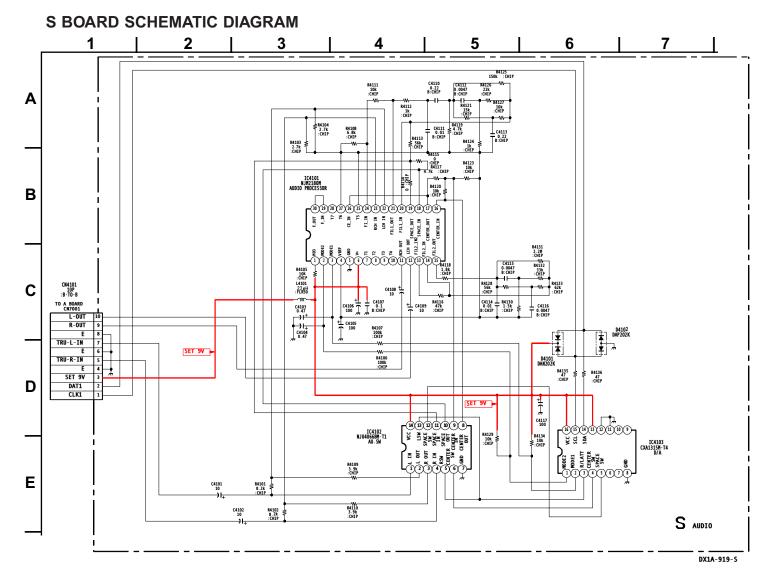
All voltages are in V.

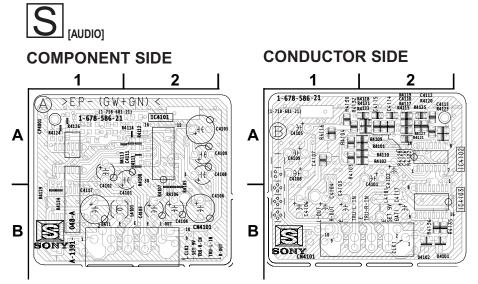
HA BOARD LOCATOR LIST

DIODE						
D01	B-2					
D02	C-2					
D07	B-2					
IC						
IC01	B-3					



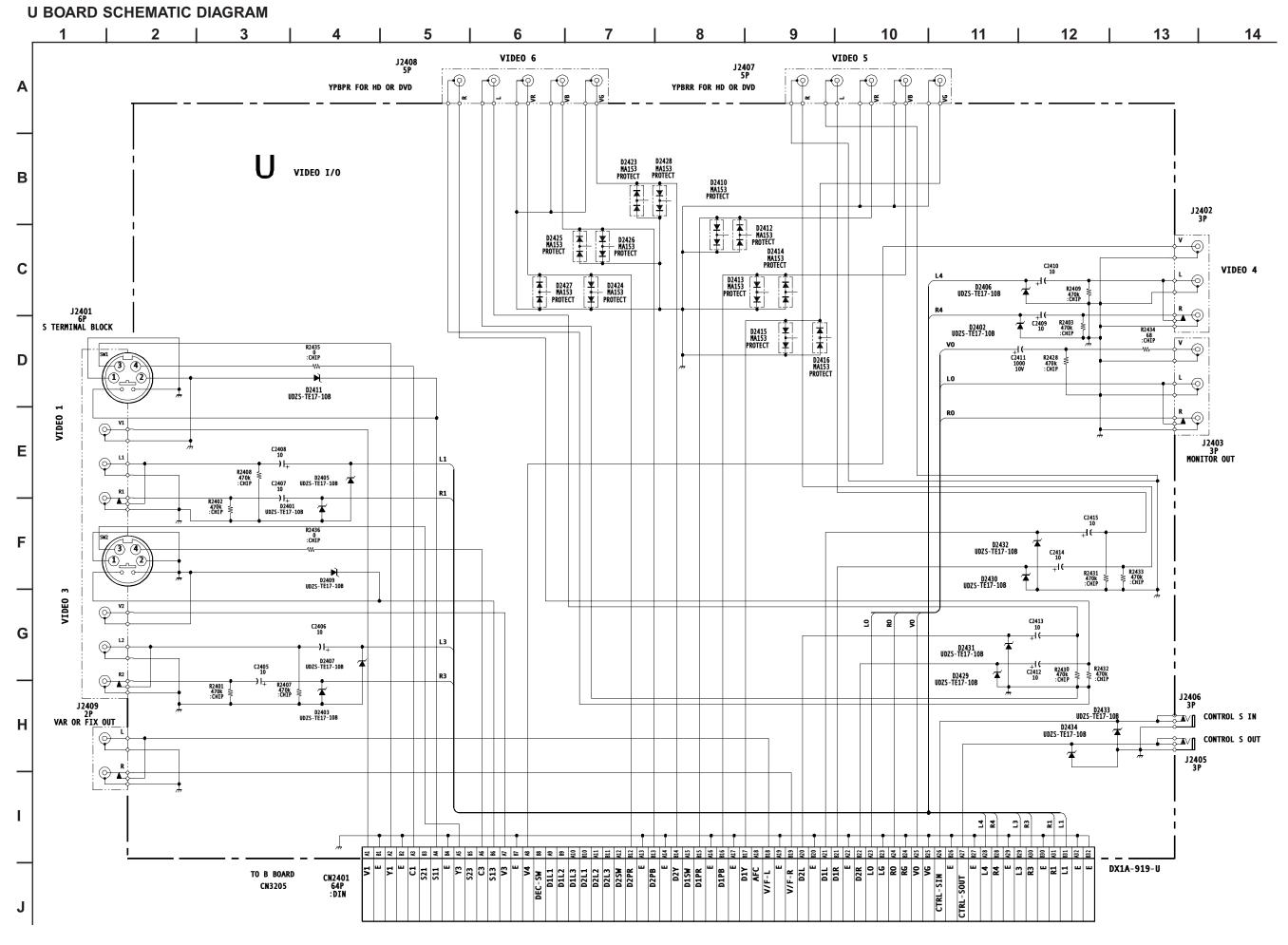


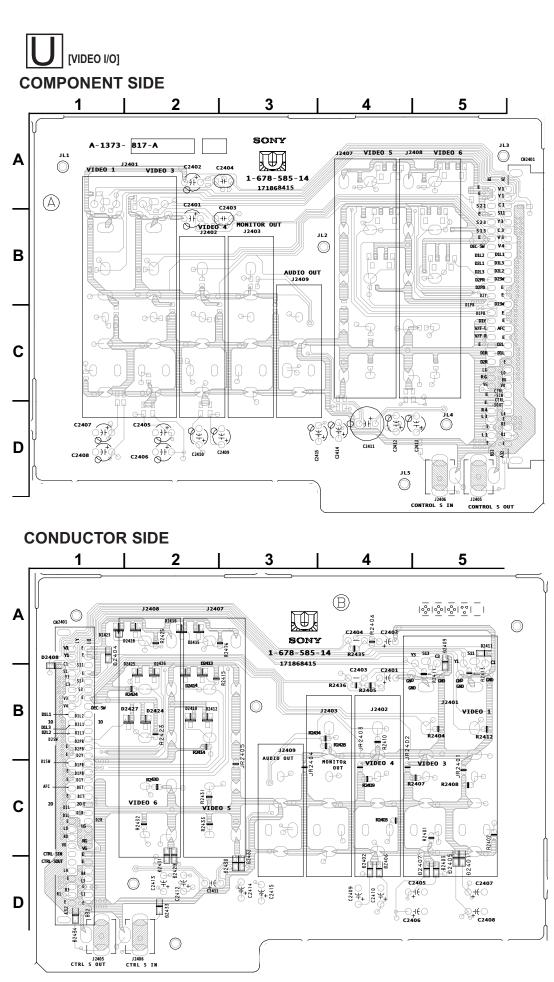




S BOARD IC VOLTAGE LIST

IC4	101	22	4.5	13	8.6
PIN	VOLT	23	4.5	14	9.0
1	8.4	24	4.5	IC	4103
2	0.1	25	4.5	PIN	VOLT
3	0.1	26	4.5	1	0.1
4	4.5	27	4.5	2	0.1
5	GND	28	N/C	3	8.6
6	9.0	29	4.5	4	0.3
7	N/C	30	4.5	5	0.3
8	N/C	IC4	102	6	N/C
9	N/C	PIN	VOLT	7	N/C
10	N/C	1	4.5	8	GND
11	4.5	2	4.5	9	N/C
12	4.5	3	4.5	10	N/C
13	4.5	4	4.5	11	GND
14	4.5	5	8.6	12	GND
15	4.5	6	0.3	13	9.0
16	4.5	7	GND	14	4.5
17	4.5	8	4.5	15	4.5
18	4.5	9	4.5	16	9.0
19	4.5	10	4.5	All vo	Itages are in V.
20	4.5	11	4.5		
21	4.5	12	0.3		

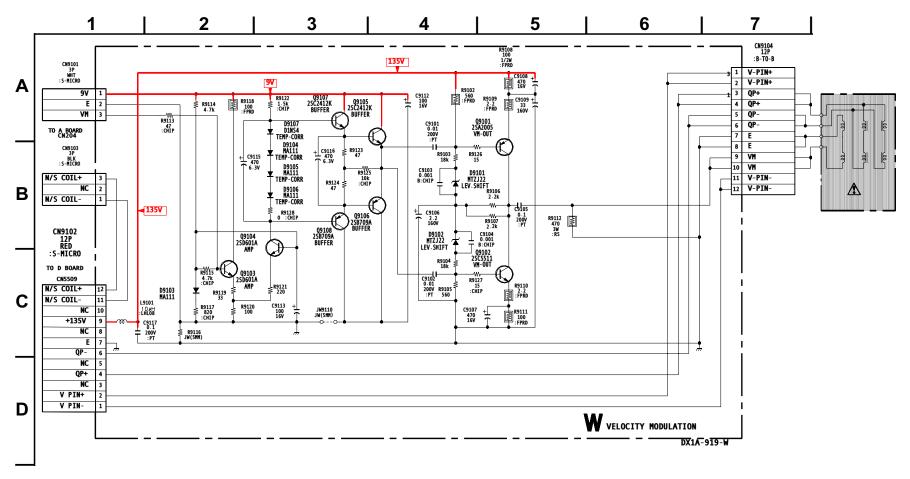




U BOARD LOCATOR LIST

DIODE							
D2401	D-5						
D2402	D-4						
D2403	D-5						
D2405	D-5						
D2406	D-4						
D2407	D-5						
D2409	A-5						
D2410	B-2						
D2411	A-5						
D2412	B-2						
D2413	B-2						
D2414	B-2						
D2415	A-2						
D2416	A-2						
D2423	A-1						
D2424	B-2						
D2425	B-2						
D2426	B-2						
D2427	B-2						
D2428	A-2						
D2429	D-2						
D2430	D-3						
D2431	D-2						
D2432	D-3						
D2433	D-2						
D2434	D-1						

W BOARD SCHEMATIC DIAGRAM

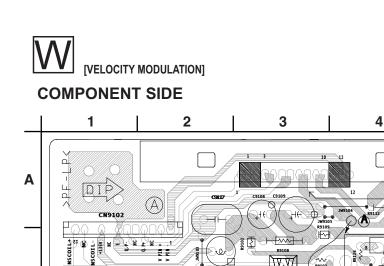


W BOARD TRANSISTOR VOLTAGE LIST

	В	С	Е
Q9101	133.8	67.5	134.3
Q9102	1.3	67.5	0.8
Q9103	1.7	8.2	1.1
Q9104	1.9	4.3	1.2
Q9105	5.8	9.0	5.4
Q9106	4.1	GND	4.7
Q9107	6.5	9.0	5.8
Q9108	4.3	GND	5.0

All voltages are in V.

6



В

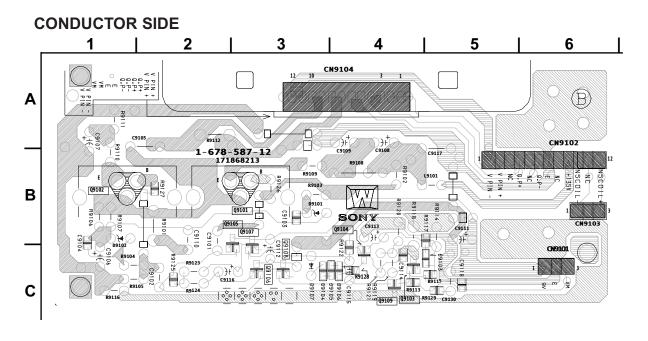
C

1 g u g 1

W BOARD LOCATOR LIST (COMPONENT SIDE)

A-1372- 833-A

DIC	DE	TRANSISTOR		
D9101	B-4	Q9101	B-4	
D9102	B-6	Q9102	B-6	
D9107	C-4			



W BOARD LOCATOR LIST (CONDUCTOR SIDE)

DIODE		D9106	C-3	Q9105	B-2
D9103	B-4	TRANS	SISTOR	Q9106	C-3
D9104	C-3	Q9103	C-4	Q9107	B-3
D9105	C-3	Q9104	B-4	Q9108	B-3

5-4. SEMICONDUCTORS (1 OF 2)

5-4. SEMICONDUC	310RS (1 OF 2)			
HHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHH	HARABABABABA TOP VIEW 16pin CXD2085M-T4 SN74LV4053ANSR	HHHHHHHHHH TOP VIEW 32pin BH3868AFS-E2	PST9120NL PST9145NL TC7SET08FU(TE85L)	1 TOP VIEW 22pin CXA2026AS
32pin СXD2073Q-T4	1 TOP VIEW 48pin CXA2103Q CXA2150Q	1 TOP VIEW 64pin TLC5733AIPM	240pin CXD9509AQ	80 51 81 50 INDEX 31 TOP VIEW
100 INDEX 31 TOP VIEW 30 M306V2ME-153FP	NJM79M12FA	LA6500-FA	E C B 2SA1208S-TP 2SA10910-TPE	B C E IRF614 IRF1644-G-LF36 IRF19630GS
B _C _E 2SA2005 2SC5511	LETTER SIDE E C B 2SC3311A-QRSTA	2SK2036(TE85L)	C C	DTA114EKA-T146 DTC144EKA-T146 2SA1226 - T1E4 2SD601A-QRS-TX 2SB709A-QRS-TX 2SC2412K-T-146-QR 2SD2114KT146
TDA6111Q/N4	B C E 2SC4632LS-CB7	CATHODE ANODE CATHODE	HHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHH	NJM2901M-TE2 NJM2903M-TE2 NJM2904M-TE2 NJM4558E(TE2) TC7WU04FU(TE12R)

SEMICONDUCTORS (2 OF 2)

SEMICONDUCTO	(2 01 2)			
PQ07VZ012P	PQ09RD21 PQ05RF21 PQ12RF21 PQ30RV21	STV9379	LETTER SIDE 1 2 3 2SC3997S-SONY	
LETTER SIDE E C B 2SC2688-LK 2SC3840K	UPC1093J	D5SC4M D8LC40F	\$1VB20	D1NL40-TA2 D6SB60L
MA111-TX MA113-TX UDZSTE-1710B UDZSTE-176.8B UDZSTE-17-12	CATHODE ANODE 1SS133T-77 D1NL20U-TR ERC91-02E	CATHODE ANODE PG124\$15	2 1 3 3 3 2 3 3 MA153-TX	2 3 1° MA3091-TX
DAN202K-T-146	D4SBS6-F	51 33 52 32 32 19 TOP VIEW CXA2069Q CXP85840A-039Q	ANODE F	01NL20U-TA2 :RA22-08TP3 :RC04-06SE :P08DPKG23 :ISS83TD :IZU11B1TRF :RGP02-20EL-6394 /ITZJ-77-22B
			MTZJ-1 MTZJ-1 MTZJ-1 ANODE MTZJ-1 MTZJ-1 MTZJ-1 MTZJ-1	T-77-15 MTZJ-T-77-7.5B T-77-15B RD5.6ES-T1B2 T-77-33B T-77-10 T-77-12 T-77-13C

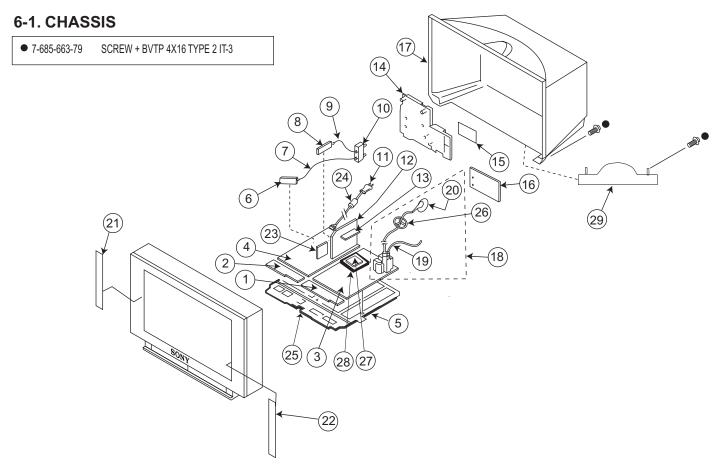
SECTION 6: EXPLODED VIEWS

Components not identified by a part number or description are not stocked because they are seldom required for routine service.

The component parts of an assembly are indicated by the reference numbers in the far right column of the parts list and within the dotted lines of the diagram. * Items marked with an asterisk are not stocked since they are seldom required for routine service. Expect some delay when ordering these components.

NOTE: The components identified by shading and riangle mark are critical for safety. Replace only with part number specified.

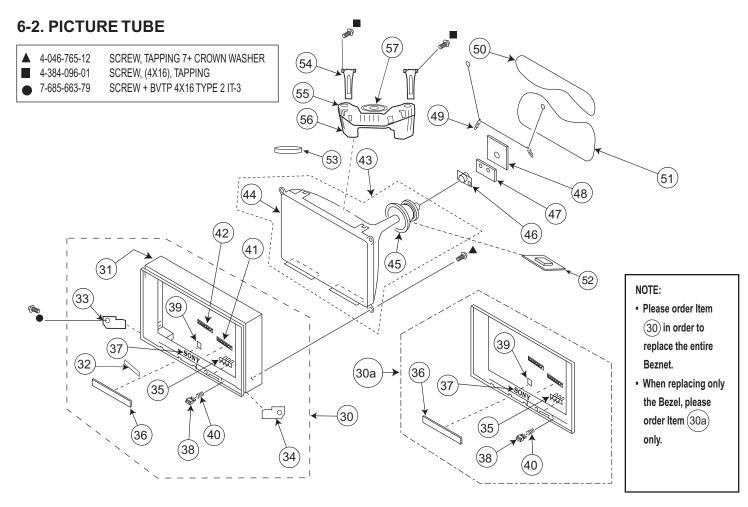
NOTE: Les composants identifies par un trame et une marque 🛆 sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.



	REF. NO.	PART NO.	DESCRIPTION		REF. NO.	PART NO.	DESCRIPTION	[Assembly Includes]
*	1	A-1377-021-A	HA MOUNTED PC BOARD		15	4-077-820-01	LABEL, TERMINAL	
*	2	A-1372-904-A	HB (COM) MOUNTED PC BOARD	*	16	A-1373-817-A	U (COM) MOUNTED PC BO	ARD
*	3	A-1348-122-A	D COMPLETE PC BOARD		17	4-083-306-01	COVER, REAR	
		The high-voltage	leads associated with the FBT on this board are not	<u>^</u>	18	1-453-350-21	FBT ASSY NX-6000//J1C4	[19-20]
		included and mus	t be ordered separately (See 19-20).	<u>^</u>	19	1-900-805-19	FOCUS LEAD	
*	4	A-1299-560-A	A COMPLETE PC BOARD	<u> </u>	20	1-251-715-32	HV CAP ASSY	
*	5	4-075-828-01	BRACKET, MAIN		21	1-544-953-11	SPEAKER (LEFT)	
	6	8-598-501-30	TUNER, FSS BTF-FA402		22	1-544-953-21	SPEAKER (RIGHT)	
*	7	1-555-400-00	CABLE, PIN	*	23	A-1391-048-A	S MOUNTED PC BOARD	
	8	8-598-542-20	TUNER, FSS BTF-WA412		24	1-500-386-11	FILTER, CLAMP (FERRITE (CORE)
			,	*	25	4-083-314-01	BRACKET, H	,
*	9	1-557-009-31	CABLE, P-P				,	
<u>/</u>	10	1-771-787-11	SWITCH, RF ANTENNA		26	4-084-918-01	RING, WISILL	
<u>/</u>	11	1-790-316-21	CORD, AC POWER(WITH CONNECTOR)	*	27	A-1333-142-A	DH MOUNTED PC BOARD	
*	12	A-1136-200-A	B COMPLETE PC BOARD	*	28	4-084-013-01	BRACKET, DH	
*	13	A-1136-117-A	BC COMPLETE PC BOARD		29	4-083-308-01	FOOT, RC	
*	14	4-075-829-01	BRACKET, U					
		The label associa	ted with the U Bracket is not included and must be					
		ordered separatel	y (See 15).					

NOTE: The components identified by shading and riangle mark are critical for safety. Replace only with part number specified.

NOTE: Les composants identifies par un trame et une marque riangle sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.



	REF. NO.	PART NO.	DESCRIPTION [[Assembly Includes]		REF. NO.	PART NO.	DESCRIPTION
	30	X-4039-427-1	BEZNET ASSY	[31-40]	*	47	A-1372-833-A	W MOUNTED PC BOARD
	30a	X-4039-428-1	BEZEL ASSY	[35-40]	*	48	A-1332-075-A	C MOUNTED PC BOARD
	31	4-083-297-01	CABINET			49	4-082-641-01	SPRING, 45MM
	32	4-083-484-01	LABEL, DOOR		<u> </u>	50	1-424-865-11	COIL, DEGAUSSING [TOP]
*	33	4-083-304-01	FOOT, CABINET (L)		<u> </u>	51	1-424-865-21	COIL, DEGAUSSING [BOTTOM]
*	34	4-083-305-01	FOOT, CABINET (R)					
						52	1-424-866-11	COIL, LANDING CORRECTION
	35	4-083-299-01	GUIDE, LED			53	4-084-246-01	CUSHION, 20MM X 80MM
	36	4-083-298-11	DOOR			54	X-4039-429-1	HOLDER ASSY, SPEAKER
	37	3-704-179-31	EMBLEM (NO.9), SONY		*	55	4-083-309-01	BOX, SPEAKER (TOP)
	38	4-083-300-01	BUTTON, POWER		*	56	4-083-310-01	BOX, SPEAKER (BOTTOM)
*	39	4-084-857-01	CUSHION, DOOR			57	1-544-952-11	SPEAKER
	40	4-083-303-01	SPRING, METAL					
	41	4-083-301-01	BUTTON, MULTI					
^	42	4-083-302-01	BUTTON, MENU					
<u>/!\</u>		8-734-048-06	ITC 42RSN-C1	[44-45]				
Ţ		8-735-095-05	CRT 42RSN					
Ţ	45	8-451-525-11	DY Y42RSC-M					
Ţ	. 46	8-453-009-21	NA325-M2 (NECK ASSEME	BLY)				

SECTION 7: ELECTRICAL PARTS LIST

NOTE: Les composants identifies par un trame et une marque riangle sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

The components in this manual identified by the following symbol:

indicate parts that have been carefully factory-selected to satisfy regulations regarding X-ray radiation for each set.

Should replacement be required for one of these components, replace only with the value originally used.

RESISTORS

- · All resistors are in ohms
- F: nonflammable
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

When ordering parts by reference number, please include the board name.

REF. NO.	PART NO.	DESCRIPTION	VALUES	3		REF. NO.	PART NO.	DESCRIPTION	VALUE	S	
						C3534	1-126-960-11	ELECT	1µF	20%	50V
BU						C3535	1-163-231-11	CERAMIC CHIP	15pF	5%	50V
						C3536	1-126-960-11	ELECT	1µF	20%	50V
						C3537	1-126-964-11	ELECT	10µF	20%	50V
						C3538	1-163-231-11	CERAMIC CHIP	15pF	5%	50V
*	A-1136-117-A	BC COMPLETE PC	BOARD								
	CAPACITOR					C3539	1-163-231-11	CERAMIC CHIP	15pF	5%	50V
						C3541	1-163-106-00	CERAMIC CHIP	36pF	5%	50V
C3500	1-165-319-11	CERAMIC CHIP	0.1µF		50V	C3542	1-126-964-11	ELECT	10µF	20%	50V
C3501	1-163-231-11	CERAMIC CHIP	15pF	5%	50V	C3543	1-164-505-11	CERAMIC CHIP	2.2µF		16V
C3502	1-165-319-11	CERAMIC CHIP	0.1µF		50V	C3546	1-163-231-11	CERAMIC CHIP	15pF	5%	50V
C3504	1-163-102-00	CERAMIC CHIP	24pF	5%	50V						
C3505	1-163-102-00	CERAMIC CHIP	24pF	5%	50V	C3547	1-126-935-11	ELECT	470µF	20%	16V
						C3548	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C3506	1-165-319-11	CERAMIC CHIP	0.1µF		50V	C3549	1-126-947-11	ELECT	47µF	20%	16V
C3507	1-165-319-11	CERAMIC CHIP	0.1µF		50V	C3550	1-163-031-91	CERAMIC CHIP	0.01µF		50V
C3509	1-163-038-91	CERAMIC CHIP	0.1µF		25V						
C3510	1-163-131-00	CERAMIC CHIP	390pF	5%	50V	C3551	1-126-947-11	ELECT	47µF	20%	16V
C3511	1-163-038-91	CERAMIC CHIP	0.1µF	0 70	25V	C3552	1-163-031-91	CERAMIC CHIP	0.01µF	_0,0	50V
03311	1-100-000-01	OLIVAINIO OI III	υ. τμι		201	C3553	1-163-031-91	CERAMIC CHIP	0.01μF		50V
C3512	1-165-319-11	CERAMIC CHIP	0.1µF		50V	C3554	1-126-947-11	ELECT	47μF	20%	16V
C3512			υ. ιμπ		30 V	C3555	1-126-935-11	ELECT	470μF	20%	16V
	1-216-295-91	SHORT	0.04 5		F0\/	63333	1-120-333-11	ELECT	470µ	20 /0	10 V
C3514	1-163-031-91	CERAMIC CHIP	0.01µF		50V	02550	1 101 001 11	OFDAMIC CUID	0.4	400/	051/
C3515	1-165-319-11	CERAMIC CHIP	0.1µF		50V	C3556	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C3516	1-165-319-11	CERAMIC CHIP	0.1µF		50V	C3557	1-163-031-91	CERAMIC CHIP	0.01µF	000/	50V
						C3558	1-126-947-11	ELECT	47µF	20%	16V
C3517	1-126-924-11	ELECT	330µF	20%	6.3V	C3559	1-163-031-91	CERAMIC CHIP	0.01µF		50V
C3518	1-163-038-91	CERAMIC CHIP	0.1µF		25V	C3560	1-126-947-11	ELECT	47µF	20%	16V
C3519	1-165-319-11	CERAMIC CHIP	0.1µF		50V						
C3520	1-165-319-11	CERAMIC CHIP	0.1µF		50V	C3561	1-163-031-91	CERAMIC CHIP	0.01µF		50V
C3521	1-163-237-11	CERAMIC CHIP	27pF	5%	50V	C3562	1-163-031-91	CERAMIC CHIP	0.01µF		50V
			•			C3563	1-126-947-11	ELECT	47µF	20%	16V
C3522	1-126-947-11	ELECT	47µF	20%	16V	C3564	1-126-947-11	ELECT	47µF	20%	16V
C3523	1-165-319-11	CERAMIC CHIP	0.1µF		50V	C3565	1-163-031-91	CERAMIC CHIP	0.01µF		50V
C3524	1-165-319-11	CERAMIC CHIP	0.1µF		50V	C3566	1-163-031-91	CERAMIC CHIP	0.01µF		50V
C3525	1-163-038-91	CERAMIC CHIP	0.1µF		25V				****		
C3526	1-165-319-11	CERAMIC CHIP	0.1µF		50V		CONNECTOR				
00020		02.00	V p.		•••	* CN3500	1-691-632-21	CONNECTOR, BOAF	D TO BOAR	15P	
C3527	1-165-319-11	CERAMIC CHIP	0.1µF		50V	CINOSOO	1-001-00 2- 21	CONNECTOR, DOAR	יייס חסעעו	וטו כ	
C3528	1-165-319-11	CERAMIC CHIP	0.1µF		50V		FERRITE BEAD				
C3529	1-165-319-11	CERAMIC CHIP	0.1µF		50V						
C3530	1-126-947-11	ELECT	47μF	20%	16V	FB3500	1-414-234-22	FERRITE	0μΗ		
C3531	1-165-319-11	CERAMIC CHIP	47μ1 0.1μF	20 /0	50V	FB3501	1-414-234-22	FERRITE	0μΗ		
C3531	1-126-964-11	ELECT		20%	50V	FB3502	1-414-234-22	FERRITE	0μH		
		CERAMIC CHIP	10µF			FB3503	1-414-234-22	FERRITE	0μΗ		
C3533	1-163-133-00	CERAIVIIC CHIP	470pF	5%	50V	I			•		

^{*} Items marked with an asterisk are not stocked since they are seldom required for routine service. Expect some delay when ordering these components.



REF. NO.	PART NO.	DESCRIPTION	VALUES	S			REF. NO.	PART NO.	DESCRIPTION	VALUE	S	
FB3504	1-414-234-22	FERRITE	0µH				R3507	1-216-295-91	SHORT			
FB3505	1-414-234-22	FERRITE	0µH				R3508	1-216-295-91	SHORT			
FB3506	1-414-234-22	FERRITE	0μH				R3509	1-216-049-11	RES-CHIP	1K	5%	1/10W
FB3507	1-414-234-22	FERRITE	0μΗ				R3510	1-216-041-00	RES-CHIP	470	5%	1/10W
FB3508	1-414-234-22	FERRITE	0μH				R3511	1-216-041-00	RES-CHIP	470	5%	1/10W
FB3509	1-414-234-22	FERRITE	0μH				NJJII	1-210-041-00	NEO-OHIF	470	J /0	1/1000
LD3309	1-414-234-22	FERRIIE	υμπ				D2512	1-216-295-91	SHORT			
	FILTER						R3512	1-216-295-91		100	E0/	1/10\\\
							R3514		RES-CHIP	100	5%	1/10W
FL3500	1-239-848-21	FILTER, LOW PASS					R3515	1-216-055-00	RES-CHIP	1.8K	5%	1/10W
FL3501	1-239-848-21	FILTER, LOW PASS					R3516	1-216-055-00	RES-CHIP	1.8K	5%	1/10W
FL3502	1-239-848-21	FILTER, LOW PASS					R3517	1-216-025-11	RES-CHIP	100	5%	1/10W
FL3503	1-239-848-21	FILTER, LOW PASS					50510		770 01117	400	-0/	
FL3504	1-233-512-21	FERRITE	37µH				R3518	1-216-025-11	RES-CHIP	100	5%	1/10W
FL3505	1-233-512-21	FERRITE	37µH				R3519	1-216-295-91	SHORT			
FL3506	1-233-512-21	FERRITE	37µH				R3520	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
			'				R3521	1-216-041-00	RES-CHIP	470	5%	1/10W
	<u>IC</u>						R3522	1-216-041-00	RES-CHIP	470	5%	1/10W
100500	0.700.400.04	10 10 11 01 01 00 0 0 0 0 0 0 0 0 0 0 0					R3523	1-216-049-11	RES-CHIP	1K	5%	1/10W
IC3500	6-700-188-01	IC IS41C16256-35K										
IC3501	8-759-594-44	IC UPD64082GF-3BA					R3524	1-216-089-91	RES-CHIP	47K	5%	1/10W
IC3502	8-759-641-30	IC NJM2391DL1-33-TEI					R3525	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
	COIL						R3526	1-216-105-91	RES-CHIP	220K	5%	1/10W
	COIL						R3527	1-216-033-00	RES-CHIP	220	5%	1/10W
L3500	1-414-265-21	INDUCTOR	4.7µH				R3528	1-208-776-11	METAL CHIP	560		1/10W
L3501	1-412-058-11	INDUCTOR	10µH				110020	1 200 110 11		000	0.0070	1, 1011
L3502	1-412-058-11	INDUCTOR	10μH				R3529	1-208-772-11	METAL CHIP	390	0.50%	1/10W
L3503	1-412-058-11	INDUCTOR	10μH				R3530	1-216-067-00	RES-CHIP	5.6K	5%	1/10W
L3504	1-412-058-11	INDUCTOR	10μH				R3531	1-216-049-11	RES-CHIP	1K	5%	1/10W
L3505	1-412-058-11	INDUCTOR	10μH				R3532	1-216-025-11	RES-CHIP	100	5%	1/10W
L3303	1-412-030-11	INDOOTOIX	τομιτ								5%	
	TRANSISTOR						R3534	1-216-049-11	RES-CHIP	1K	3%	1/10W
Q3500	8-729-424-02	TRANSISTOR 2SB709A	-ORS-TX				R3535	1-216-025-11	RES-CHIP	100	5%	1/10W
Q3501	8-729-422-27	TRANSISTOR 2SD601A					R3538	1-216-049-11	RES-CHIP	1K	5%	1/10W
Q3502	8-729-424-02	TRANSISTOR 2SB709A					R3539	1-216-043-91	RES-CHIP	560	5%	1/10W
Q3502 Q3503	8-729-422-27	TRANSISTOR 2SD601A					R3540	1-216-049-11	RES-CHIP	1K	5%	1/10W
Q3503 Q3504	8-729-424-02	TRANSISTOR 2SB709A					R3541	1-216-067-00	RES-CHIP	5.6K	5%	1/10W
Q3304	0-729-424-02	1 KANSISTOR 250/09/	1-QK3-1X				110011	1 210 001 00	1120 01111	0.011	070	1,1011
Q3505	8-729-422-27	TRANSISTOR 2SD601A	-QRS-TX				R3542	1-216-043-91	RES-CHIP	560	5%	1/10W
Q3506	8-729-422-27	TRANSISTOR 2SD601A					R3543	1-216-049-11	RES-CHIP	1K	5%	1/10W
Q3508	8-729-422-27	TRANSISTOR 2SD601A					R3544	1-216-049-11	RES-CHIP	1K	5%	1/10W
Q3509	8-729-424-02	TRANSISTOR 2SB709A					R3545	1-216-043-91	RES-CHIP	560	5%	1/10W
Q3510	8-729-424-02	TRANSISTOR 2SB709A					R3547	1-216-067-00	RES-CHIP	5.6K	5%	1/10W
Q3510 Q3511	8-729-422-27	TRANSISTOR 2SD601A										
QJJTT	0-123-422-21	TRANSISTOR ZSDOUTA	1-QN0-1A				R3548	1-216-295-91	SHORT			
00540	0.700.400.07	TDANICIOTOD OCDCOAA	ODC TV				R3549	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
Q3512	8-729-422-27	TRANSISTOR 2SD601A					R3550	1-208-780-11	METAL CHIP	820		1/10W
Q3513	8-729-422-27	TRANSISTOR 2SD601A					R3551	1-216-043-91	RES-CHIP	560	5%	1/10W
Q3514	8-729-424-02	TRANSISTOR 2SB709A					R3552	1-216-031-00	RES-CHIP	180	5%	1/10W
Q3515	8-729-422-27	TRANSISTOR 2SD601A					110002	1-210-031-00	INEO-OTHI	100	J /0	1/1044
Q3516	8-729-422-27	TRANSISTOR 2SD601A					R3553	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
Q3517	8-729-422-27	TRANSISTOR 2SD601A	N-QRS-TX									
	RESISTOR						R3554	1-216-047-91	RES-CHIP	820	5%	1/10W
	INLUISIUK						R3555	1-216-075-00	RES-CHIP	12K	5%	1/10W
R3503	1-216-017-91	RES-CHIP	47	5%	1/10W		R3556	1-216-085-91	RES-CHIP	33K	5%	1/10W
R3504	1-216-295-91	SHORT					R3557	1-216-049-11	RES-CHIP	1K	5%	1/10W
R3505	1-216-295-91	SHORT					DOFFO	4 040 047 04	DEO OLUS	47	E0/	4/40144
R3506	1-216-295-91	SHORT					R3558	1-216-017-91	RES-CHIP	47	5%	1/10W
0000						I	R3559	1-216-295-91	SHORT			



REF. NO.	PART NO.	DESCRIPTION	VALUE	s		REF. NO.	PART NO.	DESCRIPTION	VALUE	s	
R3560	1-216-049-11	RES-CHIP	1K	5%	1/10W	C3025	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10V
R3561	1-216-043-91	RES-CHIP	560	5%	1/10W	C3026	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10V
R3563	1-216-295-91	SHORT				C3027	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10V
R3564	1-216-295-91	SHORT				C3028	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
R3565	1-216-067-00	RES-CHIP	5.6K	5%	1/10W	C3030	1-164-156-11	CERAMIC CHIP	0.1µF	1070	25V
10000	1 210 007 00	NEO OIIII	0.010	0 70	1/1044	00000	1 104 100 11	OLIV WIIO OI III	υ. τμι		201
R3566	1-216-057-00	RES-CHIP	2.2K	5%	1/10W	C3031	1-164-156-11	CERAMIC CHIP	0.1µF		25V
R3567	1-216-043-91	RES-CHIP	560	5%	1/10W	C3032	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
R3568	1-216-047-91	RES-CHIP	820	5%	1/10W	C3033	1-126-206-11	ELECT CHIP	100µF	20%	6.3V
R3569	1-216-057-00	RES-CHIP	2.2K	5%	1/10W	C3034	1-164-156-11	CERAMIC CHIP	0.1µF		25V
R3570	1-216-085-91	RES-CHIP	33K	5%	1/10W	C3035	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
D0E74	4 040 075 00	DEC CUID	401/	E0/	4/40\\	02020	4 407 000 44	CEDAMIC CUID	0.4	400/	401/
R3571	1-216-075-00	RES-CHIP	12K	5%	1/10W	C3036	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
R3572	1-216-049-11	RES-CHIP	1K	5%	1/10W	C3037	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
R3573	1-216-017-91	RES-CHIP	47	5%	1/10W	C3039	1-124-779-00	ELECT CHIP	10μF	20%	16V
R3588	1-216-043-91	RES-CHIP	560	5%	1/10W	C3040	1-124-779-00	ELECT CHIP	10μF	20%	16V
R3589	1-216-105-91	RES-CHIP	220K	5%	1/10W	C3041	1-162-964-11	CERAMIC CHIP	0.001µF	10%	50V
	CRYSTAL					C3043	1-164-156-11	CERAMIC CHIP	0.1µF		25V
V0500	4 707 000 44	VIDDATOD ODVOTAL				C3044	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
X3500	1-767-606-11	VIBRATOR, CRYSTAL				C3045	1-124-779-00	ELECT CHIP	10µF	20%	16V
						C3046	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
						C3047	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
B						03047	1-104-004-11	CLIVAIVIIC CI III	υ. τμι	10 /0	23 V
						C3048	1-163-038-91	CERAMIC CHIP	0.1µF		25V
*	A-1136-200-A	B COMPLETE PC BOA	\RD			C3049	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
	7. 1100 200 7.	5 00 22121 0 50/				C3050	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
	CAPACITOR					C3051	1-162-917-11	CERAMIC CHIP	15pF	5%	50V
00004	4 400 450 04	EL E O T. O. I.I.D.	47	000/		C3054	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3001	1-128-453-21	ELECT CHIP	47µF	20%	6.3V				·		
C3002	1-128-453-21	ELECT CHIP	47µF	20%	6.3V	C3055	1-124-779-00	ELECT CHIP	10μF	20%	16V
C3003	1-128-453-21	ELECT CHIP	47µF	20%	6.3V	C3056	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3004	1-126-206-11	ELECT CHIP	100μF	20%	6.3V	C3057	1-126-603-11	ELECT CHIP	4.7µF	20%	35V
C3005	1-164-156-11	CERAMIC CHIP	0.1µF		25V	C3059	1-126-206-11	ELECT CHIP	100µF	20%	6.3V
						C3060	1-126-204-11	ELECT CHIP	47µF	20%	16V
C3006	1-124-779-00	ELECT CHIP	10µF	20%	16V	-	0 _0			_070	
C3007	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10V	C3061	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10V
C3008	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10V	C3062	1-126-204-11	ELECT CHIP	47μF	20%	16V
C3009	1-164-227-11	CERAMIC CHIP	0.022µF	10%	25V	C3063	1-164-156-11	CERAMIC CHIP	0.1μF	2070	25V
C3010	1-164-156-11	CERAMIC CHIP	0.1µF		25V	C3064	1-117-681-11	ELECT CHIP	0.1μ1 100μF	20%	16V
			•			C3064	1-126-204-11	ELECT CHIP	47μF	20%	16V
C3011	1-162-917-11	CERAMIC CHIP	15pF	5%	50V	03000	1-140-40-11	LLLUI UIIIF	41 hc	2070	101
C3012	1-164-156-11	CERAMIC CHIP	0.1µF		25V	C3067	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C3013	1-104-601-11	ELECT CHIP	10μF	20%	10V	C3068	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V 25V
C3014	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10V	C3069	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C3015	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V						
			'			C3070	1-126-204-11	ELECT CHIP	47µF	20%	16V
C3016	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10V	C3071	1-162-916-11	CERAMIC CHIP	12pF	5%	50V
C3017	1-124-779-00	ELECT CHIP	10µF	20%	16V						
C3018	1-164-156-11	CERAMIC CHIP	0.1μF	20 /0	25V	C3072	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10V
C3019	1-164-156-11	CERAMIC CHIP	0.1μF		25V 25V	C3073	1-126-204-11	ELECT CHIP	47µF	20%	16V
C3020	1-104-130-11	CERAMIC CHIP	0.1μF 1μF	10%	6.3V	C3074	1-126-204-11	ELECT CHIP	47µF	20%	16V
U3U2U	1-120-031-31	CENAIVIIC CHIP	ıµr′	1070	0.57	C3075	1-164-315-11	CERAMIC CHIP	470pF	5%	50V
C3021	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V	C3076	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10V
C3021	1-164-156-11	CERAMIC CHIP	0.01µF	10 /0	25V 25V						
C3022	1-104-130-11	CERAMIC CHIP	0.1μr 0.47μF	10%	10V	C3078	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
			•			C3079	1-125-838-11	CERAMIC CHIP	2.2µF	10%	6.3V
C3024	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10V						



REF. NO.	PART NO.	DESCRIPTION	VALUE	S		REF. NO.	PART NO.	DESCRIPTION	VALUE	S	
C3080	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V	00040	4 400 070 44	OEDAMIO OLUB	0.04.5	400/	051/
C3081	1-164-156-11	CERAMIC CHIP	0.1μF	10 /0	25V	C3212	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C3082	1-126-204-11	ELECT CHIP	47μF	20%	16V	C3213	1-117-681-11	ELECT CHIP	100µF	20%	16V
					16V	C3215	1-126-401-21	ELECT CHIP	1µF	20%	50V
C3083	1-107-823-11	CERAMIC CHIP	0.47µF	10%		C3216	1-126-193-11	ELECT CHIP	1µF	20%	50V
C3085	1-125-837-91	CERAMIC CHIP	1µF	10%	6.3V	C3218	1-126-193-11	ELECT CHIP	1µF	20%	50V
C3086	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V	C3219	1-126-193-11	ELECT CHIP	1µF	20%	50V
C3087	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10V	C3220	1-128-993-21	ELECT CHIP	22µF	20%	10V
C3088	1-124-779-00	ELECT CHIP	10μF	20%	16V	C3221	1-117-681-11	ELECT CHIP	100µF	20%	16V
C3089	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V	C3222	1-124-779-00	ELECT CHIP	100μΓ	20%	16V
C3090	1-126-204-11	ELECT CHIP	47µF	20%	16V	C3222	1-124-779-00	ELECT CHIP	10μF	20%	16V
C3091	1-164-156-11	CERAMIC CHIP	0.1µF		25V	00220	1-124-113-00	LLLOT OTIII	ιομι	20 /0	10 V
00000	4 404 450 44	0504440 0440	0.4.5		05) /	C3224	1-124-779-00	ELECT CHIP	10µF	20%	16V
C3092	1-164-156-11	CERAMIC CHIP	0.1µF		25V	C3225	1-124-779-00	ELECT CHIP	10µF	20%	16V
C3093	1-164-156-11	CERAMIC CHIP	0.1µF		25V	C3226	1-124-779-00	ELECT CHIP	10µF	20%	16V
C3094	1-164-156-11	CERAMIC CHIP	0.1µF		25V	C3227	1-124-779-00	ELECT CHIP	10µF	20%	16V
C3096	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V	C3229	1-117-681-11	ELECT CHIP	100µF	20%	16V
C3097	1-164-156-11	CERAMIC CHIP	0.1µF		25V	C3235	1-124-779-00	ELECT CHIP	10μF	20%	16V
C3098	1-164-156-11	CERAMIC CHIP	0.1µF		25V	C3236	1-124-779-00	ELECT CHIP	10uE	20%	16V
C3099	1-162-919-11	CERAMIC CHIP	22pF	5%	50V	C3237	1-124-779-00	ELECT CHIP	10μF 100μF	20%	16V
C3113	1-164-156-11	CERAMIC CHIP	0.1µF	0,0	25V						
C3114	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V	C3239	1-124-779-00	ELECT CHIP	10µF	20%	16V
C3115	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V	C3240	1-164-230-11	CERAMIC CHIP	220pF	5%	50V
C3116	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V	C3241	1-164-361-11	CERAMIC CHIP	0.047µF		25V
C3110	1-107-626-11	ELECT CHIP	0.1μF 4.7μF	20%	35V						
03117	1-120-003-11	ELECT OHP	4.7µF	2070	337	C3242	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C3120	1-126-206-11	ELECT CHIP	100µF	20%	6.3V	C3243	1-126-193-11	ELECT CHIP	1µF	20%	50V
C3127	1-120-200-11	CERAMIC CHIP	0.1μF	10%	16V	C3245	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C3128	1-162-916-11	CERAMIC CHIP	12pF	5%	50V	C3246	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C3129	1-102-310-11	CERAMIC CHIP	0.47µF	10%	10V	C3247	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C3129				5%	50V						
	1-164-315-11	CERAMIC CHIP	470pF		10V	C3248	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C3131	1-125-891-11	CERAMIC CHIP	0.47µF	10%	100	C3249	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
00400	4 407 000 44	OEDAMIO OLUB	0.4 5	400/	40)/	C3250	1-216-295-91	SHORT			
C3132	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V	C3251	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C3133	1-125-838-11	CERAMIC CHIP	2.2µF	10%	6.3V	C3252	1-216-295-91	SHORT			
C3134	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V						
C3135	1-164-156-11	CERAMIC CHIP	0.1µF		25V	C3253	1-127-573-11	CERAMIC CHIP	1μF	10%	16V
C3136	1-107-823-11	CERAMIC CHIP	-	10%	16V	C3254	1-127-573-11	CERAMIC CHIP	1µF	10%	16V
C3137	1-125-837-91	CERAMIC CHIP	1μF	10%	6.3V	C3255	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
						C3301	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3138	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V	C3302	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3139	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10V						
C3140	1-124-779-00	ELECT CHIP	10μF	20%	16V	C3303	1-126-206-11	ELECT CHIP	100µF	20%	6.3V
C3141	1-162-917-11	CERAMIC CHIP	15pF	5%	50V	C3304	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3142	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V	C3305	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3172	1-124-779-00	ELECT CHIP	10μF	20%	16V	C3306	1-126-204-11	ELECT CHIP	47μF	20%	16V
C3173	1-164-156-11	CERAMIC CHIP	0.1µF		25V	C3307	1-164-156-11	CERAMIC CHIP	0.1μF	2070	25V
00004	4 400 400 44	FLEOT OUR	4=	000/	E0) /						
C3204	1-126-193-11	ELECT CHIP	1μF	20%	50V	C3308	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3205	1-117-681-11	ELECT CHIP	100μF	20%	16V	C3309	1-124-779-00	ELECT CHIP	10µF	20%	16V
C3206	1-125-837-91	CERAMIC CHIP	1µF	10%	6.3V	C3310	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C3208	1-125-837-91	CERAMIC CHIP	1μF	10%	6.3V	C3311	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C3209	1-124-779-00	ELECT CHIP	10μF	20%	16V	C3312	1-126-206-11	ELECT CHIP	100µF	20%	6.3V
						C3313	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3210	1-125-837-91	CERAMIC CHIP	1μF	10%	6.3V	C3314	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3211	1-125-837-91	CERAMIC CHIP	1µF	10%	6.3V	- *			: P"		



REF. NO.	PART NO.	DESCRIPTION	VALUE	S			REF. NO.	PART NO.	DESCRIPTION	VALUE	S	
C3315	1-164-156-11	CERAMIC CHIP	0.1µF		25V		C3368	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3316	1-164-156-11	CERAMIC CHIP	0.1µF		25V		C3369	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3317	1-164-156-11	CERAMIC CHIP	0.1µF		25V		C3370	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3318	1-164-156-11				25V 25V		C3370	1-164-156-11	CERAMIC CHIP			25V
		CERAMIC CHIP	0.1µF							0.1µF		
C3319	1-164-156-11	CERAMIC CHIP	0.1µF		25V		C3372	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3320	1-164-156-11	CERAMIC CHIP	0.1µF		25V		C3374	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3321	1-164-156-11	CERAMIC CHIP	0.1µF		25V		C3375	1-127-760-11	CERAMIC CHIP	4.7µF	10%	6.3V
C3322	1-126-204-11	ELECT CHIP	47µF	20%	16V		C3376	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3323	1-124-779-00	ELECT CHIP	10μF	20%	16V		C3377	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C3324	1-164-156-11	CERAMIC CHIP	0.1µF		25V		C3378	1-126-204-11	ELECT CHIP	47µF	20%	16V
02225	4 404 450 44	OFDAMIC CLUD	0.4		051/		02270	4 404 450 44	CEDAMIC CLUB	0.4		051/
C3325	1-164-156-11	CERAMIC CHIP	0.1µF		25V		C3379	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3326	1-164-156-11	CERAMIC CHIP	0.1µF		25V		C3401	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3327	1-164-156-11	CERAMIC CHIP	0.1µF		25V		C3402	1-124-779-00	ELECT CHIP	10μF	20%	16V
C3328	1-124-779-00	ELECT CHIP	10µF	20%	16V		C3403	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3331	1-126-204-11	ELECT CHIP	47µF	20%	16V		C3404	1-124-779-00	ELECT CHIP	10μF	20%	16V
C3332	1-124-779-00	ELECT CHIP	10µF	20%	16V		C3405	1-126-206-11	ELECT CHIP	100µF	20%	6.3V
C3333	1-164-156-11	CERAMIC CHIP	0.1µF	_0,0	25V		C3406	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C3335	1-164-156-11	CERAMIC CHIP	0.1µF		25V		C3407	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V
				200/								
C3336	1-124-779-00	ELECT CHIP	10µF	20%	16V		C3408	1-126-206-11	ELECT CHIP	100µF	20%	6.3V
C3338	1-164-156-11	CERAMIC CHIP	0.1µF		25V		C3409	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3339	1-164-156-11	CERAMIC CHIP	0.1µF		25V		C3410	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3340	1-164-156-11	CERAMIC CHIP	0.1µF		25V		C3411	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C3341	1-164-156-11	CERAMIC CHIP	0.1µF		25V		C3412	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C3343	1-164-156-11	CERAMIC CHIP	0.1µF		25V		C3413	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3344	1-164-156-11	CERAMIC CHIP	0.1µF		25V		C3414	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
00011	1 104 100 11	OLIV WIIO OTIII	υ. τμι		201		00414	1 107 020 11	OLIV WIIO OI III	0.1μ1	10 /0	10 V
C3345	1-126-204-11	ELECT CHIP	47µF	20%	16V		C3415	1-124-779-00	ELECT CHIP	10μF	20%	16V
C3346	1-164-156-11	CERAMIC CHIP	0.1µF		25V		C3416	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3347	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V		C3417	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3348	1-164-156-11	CERAMIC CHIP	0.1µF	, ,	25V		C3418	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C3349	1-164-156-11	CERAMIC CHIP	0.1μF		25V		C3419	1-164-156-11	CERAMIC CHIP	0.1μF	10 /0	25V
00043	1-104-130-11	CLIVAIVIIC OI III	υ. τμι		250		03413	1-104-130-11	OLIVAIVIIC OI III	υ. ιμι		201
C3350	1-164-156-11	CERAMIC CHIP	0.1µF		25V		C3420	1-124-779-00	ELECT CHIP	10μF	20%	16V
C3351	1-164-156-11	CERAMIC CHIP	0.1µF		25V		C3421	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3352	1-124-779-00	ELECT CHIP	10µF	20%	16V		C3422	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3353	1-126-204-11	ELECT CHIP	47µF	20%	16V		C3423	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C3354	1-164-156-11	CERAMIC CHIP	0.1µF		25V		C3424	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3355	1-164-156-11	CERAMIC CHIP	0.1µF		25V		C3425	1-107-823-11	CERAMIC CHIP	0.47µF	10%	16V
C3356	1-126-204-11	ELECT CHIP	47μF	20%	16V		C3426	1-164-156-11	CERAMIC CHIP	0.47μ1 0.1μF	10 /0	25V
				20%							400/	
C3357	1-164-156-11	CERAMIC CHIP	0.1µF		25V		C3428	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C3358	1-164-156-11	CERAMIC CHIP	0.1µF		25V		C3429	1-124-779-00	ELECT CHIP	10µF	20%	16V
C3359	1-126-204-11	ELECT CHIP	47µF	20%	16V		C3430	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3360	1-164-156-11	CERAMIC CHIP	0.1µF		25V		C3431	1-126-204-11	ELECT CHIP	47µF	20%	16V
C3361	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V		C3432	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C3362	1-127-760-11	CERAMIC CHIP	4.7µF	10%	6.3V		C3433	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C3363	1-126-204-11	ELECT CHIP	47μF	20%	16V		C3434	1-126-204-11	ELECT CHIP	47μF	20%	16V
				ZU /0						•	20 /0	
C3364	1-164-156-11	CERAMIC CHIP	0.1µF		25V		C3435	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3365	1-164-156-11	CERAMIC CHIP	0.1µF		25V		C3436	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C3366	1-164-156-11	CERAMIC CHIP	0.1µF		25V		C3437	1-126-204-11	ELECT CHIP	47µF	20%	16V
C3367	1-164-156-11	CERAMIC CHIP	0.1µF		25V		C3438	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
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REF. NO.	PART NO.	DESCRIPTION	VALUE	S			REF. NO.	PART NO.	DESCRIPTION	VALUES	3	
C3439	1-164-156-11	CERAMIC CHIP	0.1µF		25V		C3491	1-126-204-11	ELECT CHIP	47µF	20%	16V
C3440	1-162-916-11	CERAMIC CHIP	12pF	5%	50V		C3492	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3441	1-162-916-11	CERAMIC CHIP	12pF	5%	50V		C3493	1-126-204-11	ELECT CHIP	47μF	20%	16V
C3442	1-124-779-00	ELECT CHIP	10µF	20%	16V		C3494	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3443	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V		C3495	1-124-779-00	ELECT CHIP	10µF	20%	16V
33	02 0.0	0_100 01	0.0.μ.				00.00				_070	
C3444	1-164-156-11	CERAMIC CHIP	0.1µF		25V		C3496	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3445	1-126-204-11	ELECT CHIP	47µF	20%	16V		C3604	1-124-779-00	ELECT CHIP	10μF	20%	16V
C3446	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V		C3605	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3447	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V		C3606	1-125-891-11	CERAMIC CHIP	0.47μF	10%	10V
C3448	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V		C3607	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
			•									
C3449	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V		C3608	1-163-275-11	CERAMIC CHIP	0.001µF	5%	50V
C3450	1-164-156-11	CERAMIC CHIP	0.1µF		25V		C3609	1-162-968-11	CERAMIC CHIP	0.0047µF	10%	50V
C3452	1-164-156-11	CERAMIC CHIP	0.1µF		25V		C3610	1-126-204-11	ELECT CHIP	47μF	20%	16V
C3453	1-124-779-00	ELECT CHIP	10µF	20%	16V		C3611	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3454	1-164-156-11	CERAMIC CHIP	0.1µF		25V		C3612	1-162-917-11	CERAMIC CHIP	15pF	5%	50V
00101	. 101 100 11	or a anno or m	υμ.		201		00012	1 102 011 11	or a mino or m	1001	0 / 0	001
C3455	1-124-779-00	ELECT CHIP	10μF	20%	16V		C3613	1-162-917-11	CERAMIC CHIP	15pF	5%	50V
C3456	1-164-156-11	CERAMIC CHIP	0.1µF		25V		C3618	1-124-779-00	ELECT CHIP	10μF	20%	16V
C3457	1-124-779-00	ELECT CHIP	10μF	20%	16V		C3619	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3458	1-164-156-11	CERAMIC CHIP	0.1µF		25V		C3623	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10V
C3460	1-162-923-11	CERAMIC CHIP	47pF	5%	50V		C3624	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
33.33	02 020	0_100 0		0,0					000 0	٠٠٠٣٠		
C3462	1-164-156-11	CERAMIC CHIP	0.1µF		25V		C3625	1-163-275-11	CERAMIC CHIP	0.001µF	5%	50V
C3463	1-164-156-11	CERAMIC CHIP	0.1µF		25V		C3626	1-162-968-11	CERAMIC CHIP	0.0047µF	10%	50V
C3464	1-164-156-11	CERAMIC CHIP	0.1µF		25V		C3627	1-126-204-11	ELECT CHIP	47µF	20%	16V
C3465	1-164-156-11	CERAMIC CHIP	0.1µF		25V		C3628	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3466	1-164-156-11	CERAMIC CHIP	0.1µF		25V		C3629	1-162-917-11	CERAMIC CHIP	15pF	5%	50V
00.407	4 404 450 44	0504440 0140	0.4.5		05) (00000	4 400 047 44	0554440 0145	45.5	5 0/	50) /
C3467	1-164-156-11	CERAMIC CHIP	0.1µF	000/	25V		C3630	1-162-917-11	CERAMIC CHIP	15pF	5%	50V
C3468	1-126-206-11	ELECT CHIP	100µF	20%	6.3V		C3635	1-126-204-11	ELECT CHIP	47µF	20%	16V
C3469	1-164-156-11	CERAMIC CHIP	0.1µF		25V		C3636	1-125-837-91	CERAMIC CHIP	1μF	10%	6.3V
C3470	1-126-206-11	ELECT CHIP	100µF	20%	6.3V		C3637	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C3473	1-164-156-11	CERAMIC CHIP	0.1µF		25V		C3638	1-124-779-00	ELECT CHIP	10μF	20%	16V
C3474	1-124-779-00	ELECT CHIP	10μF	20%	16V		C3639	1-164-156-11	CERAMIC CHIP	0.1µF		25V
				20 /0							100/	
C3475	1-164-156-11	CERAMIC CHIP	0.1μF	000/	25V		C3640	1-162-964-11	CERAMIC CHIP	0.001µF		50V
C3476	1-124-779-00	ELECT CHIP	10μF	20%	16V		C3641	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C3477	1-164-156-11	CERAMIC CHIP	0.1µF	000/	25V		C3642	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C3478	1-126-204-11	ELECT CHIP	47µF	20%	16V		C3643	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C3479	1-124-779-00	ELECT CHIP	10µF	20%	16V		C3644	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3480	1-164-156-11	CERAMIC CHIP	0.1µF	2070	25V		C3652	1-162-974-11	CERAMIC CHIP	0.01µF		50V
C3481	1-117-681-11	ELECT CHIP	100μF	20%	16V		C3653	1-164-230-11	CERAMIC CHIP	220pF	5%	50V
C3482					16V		C3654	1-164-230-11	CERAMIC CHIP			50V
	1-117-681-11	ELECT CHIP	100µF	20%						220pF	5%	
C3483	1-117-681-11	ELECT CHIP	100µF	20%	16V		C3655	1-164-816-11	CERAMIC CHIP	220pF	2%	50V
C3484	1-125-837-91	CERAMIC CHIP	1µF	10%	6.3V		C3656	1-164-230-11	CERAMIC CHIP	220pF	5%	50V
C3485	1-164-156-11	CERAMIC CHIP	0.1µF	- / V	25V		C3657	1-162-964-11	CERAMIC CHIP	0.001µF	10%	50V
C3486	1-164-156-11	CERAMIC CHIP	0.1µF		25V		C3658	1-162-964-11	CERAMIC CHIP	0.001µF	10%	50V
C3487	1-164-156-11	CERAMIC CHIP	0.1μF		25V 25V		C3659	1-126-204-11	ELECT CHIP	47μF	20%	16V
C3488	1-104-130-11	ELECT CHIP	0.1μF 10μF	20%	16V		C3660	1-126-204-11	ELECT CHIP	47μF 47μF	20%	16V
UJ400	1-14 4- 113-00	ELECT ONF	ιυμΓ	2070	107		03000	1-120-20 4 -11	ELECT OFF	41 µГ	2070	101
C3489	1-164-156-11	CERAMIC CHIP	0.1µF		25V							
C3490	1-124-779-00	ELECT CHIP	10µF	20%	16V							
			-1	/0	. •	1						



_	REF. NO.	PART NO.	DESCRIPTION	VALUES	REF. NO.	PART NO.	DESCRIPTION	VALUES
		CONNECTOR				<u>FILTER</u>		
*	CN3201	1-691-616-21	CONNECTOR, BOARD	TO BOARD 15P	FL3001	1-239-848-11	FILTER, LOW PASS	
	CN3202	1-573-299-21	CONNECTOR, BOARD	TO BOARD 10P	FL3002	1-239-848-11	FILTER, LOW PASS	
*	CN3203	1-785-303-11	CONNECTOR, DIN (PLU	JG) 64	FL3003	1-781-923-11	FILTER, LOW PASS (SI	MD)
*	CN3204	1-564-526-11	PLUG, CONNECTOR 11		FL3004	1-239-848-11	FILTER, LOW PASS	,
*	CN3205	1-785-304-11	CONNECTOR, DIN (RE	CEPTACLE) 64	FL3401	1-781-923-21	FILTER, LOW PASS (SI	MD)
		DIODE				<u>IC</u>		
	D3001	8-719-978-33	DIODE UDZSTE-176.8B		102004	0.750.000.04	IC CVA24540	
	D3001	8-719-978-33	DIODE UDZSTE-176.8B		IC3001 IC3002	8-752-093-84 8-759-595-97	IC CXA2151Q IC SN74LV4053ANSR	
	D3003	8-719-978-33	DIODE UDZSTE-176.8B		IC3002	8-752-394-69	IC CXD2073Q-T4	
	D3004	8-719-978-33	DIODE UDZSTE-176.8B		IC3004	8-759-595-97	IC SN74LV4053ANSR	
	D3005	8-719-978-33	DIODE UDZSTE-176.8B	}	IC3048	8-752-089-50	IC CXA2103Q	
	D3006	8-719-978-33	DIODE UDZSTE-176.8B		IC3089	6-700-149-01	IC M24C04-MN6T(A)	
	D3007	8-719-978-33	DIODE UDZSTE-176.8B		IC3090	6-800-050-01	IC MB94918RpF-G-137	'-BND
	D3089	8-719-800-76	DIODE MA153-TX		IC3091	8-759-349-11	IC PST9145NL	
	D3090 D3201	8-719-800-76	DIODE MA153-TX DIODE UDZSTE-1710B		IC3110	8-752-089-50	IC CXA2103Q	
	D3201	8-719-977-28	DIONE 00791E-11 10P		IC3201	8-752-080-04	IC CXA2069Q	
	D3202	8-719-977-28	DIODE UDZSTE-1710B		IC3202	8-759-351-01	IC TEA6422DT	
	D3204	8-719-977-28	DIODE UDZSTE-1710B		IC3203	8-759-331-71	IC NJM4558E(TE2)	
	D3205	8-719-977-28	DIODE UDZSTE-1710B		IC3301	6-700-134-01	IC NT56V1616A0T-7-T8	R R
	D3206	8-719-977-28	DIODE UDZSTE-1710B		IC3302	8-749-015-18	IC PQ07VZ012P	
	D3209	8-719-914-44	DIODE DAP202K-T-146		IC3303	8-752-409-78	IC CXD2095AQ	
	D3210	8-719-041-97	DIODE MA113-(TX)		IC3304	8-759-447-90	IC TLC5733AIPM	
	D3211	8-719-404-50	DIODE MA111-TX		IC3305	8-759-669-75	IC TLC2932IPWR	
	D3212	8-719-977-28	DIODE UDZSTE-1710B		IC3306	8-759-669-78	IC TLC2933IPWR-12	
	D3213	8-719-977-28	DIODE UDZSTE-1710B		IC3401	8-749-015-18	IC PQ07VZ012P	
	D3214	8-719-977-28	DIODE UDZSTE-1710B		IC3402	8-759-675-89	IC TC59S6432CFT-80()	(B)
	D3215	8-719-977-28	DIODE UDZSTE-1710B		IC3403	8-759-460-29	IC PST9120NL	
	D3216	8-719-977-28	DIODE UDZSTE-1710B		IC3404	8-759-669-75	IC TLC2932IPWR	
	D3217	8-719-977-28	DIODE UDZSTE-1710B		IC3405	8-759-485-79	IC TC7SET08FU(TE85F	
	D3301	8-719-056-77	DIODE UDZ-TE-17-3.9B		IC3406	8-759-485-79	IC TC7SET08FU(TE85F	
	D3401	8-719-914-43 8-719-914-44	DIODE DAN202K-T-146 DIODE DAP202K-T-146		IC3407	8-759-485-79	IC TC7SET08FU(TE85	₹)
	D3402 D3403	8-719-914-44 8-719-978-33	DIODE UDZSTE-176.8B		102400	8-759-672-57	IC CVD0E00AO	
	DOTOU	3 1 10 010 00	5105E 05201E-110.0D		IC3408 IC3409	8-749-015-18	IC CXD9509AQ IC PQ07VZ012P	
		FERRITE BEAD			IC3409	8-752-367-59	IC CXD2309Q	
	FB3201	1-414-234-22	FERRITE	0μΗ	IC3411	8-759-082-57	IC TC7W04FU(TE12R)	
	FB3201	1-414-234-22	FERRITE	оµп ОµН	IC3412	8-759-082-58	IC TC7W08FU(TE12R)	
	FB3203	1-216-295-91	SHORT	υμι ι			(/	
	FB3204	1-414-234-22	FERRITE	0μΗ	IC3413	8-759-595-97	IC SN74LV4053ANSR	
	FB3205	1-414-234-22	FERRITE	0μΗ	IC3414	8-759-548-56	IC M52055FP	
		•		'	IC3601	8-752-916-40	IC CXP85840A-039Q	
	FB3206	1-414-234-22	FERRITE	0μΗ	IC3602	8-752-916-40	IC CXP85840A-039Q	
	FB3401	1-414-235-22	FERRITE	0μH	IC3603	8-752-395-13	IC CXD2085M-T4	
	FB3402	1-414-235-22	FERRITE	0μΗ	IC3604	8-759-700-07	IC NJM2903M-TE2	
	FB3403	1-216-295-91	SHORT			COIL		
	FB3601	1-414-235-22	FERRITE	0μΗ	10004		OHODT	
					L3001	1-216-295-91	SHORT	10uU
					L3002 L3003	1-469-555-21 1-469-555-21	INDUCTOR INDUCTOR	10μH 10μH
					L3003	1-400-000-21	אטוטטטאוו	ινμιι



REF. NO.	PART NO.	DESCRIPTION	VALUES	REF. NO.	PART NO.	DESCRIPTION	VALUES
L3004	1-469-555-21	INDUCTOR	10µH	Q3006	8-729-422-27	TRANSISTOR 2SD601/	A-QRS-TX
L3005	1-469-555-21	INDUCTOR	10µH	Q3007	8-729-422-27	TRANSISTOR 2SD601/	A-QRS-TX
L3049	1-469-555-21	INDUCTOR	10µH	Q3008	8-729-424-02	TRANSISTOR 2SB709A	A-QRS-TX
L3050	1-469-555-21	INDUCTOR	10μH	Q3009	8-729-424-02	TRANSISTOR 2SB709A	A-ORS-TX
				Q3010	8-729-424-02	TRANSISTOR 2SB709A	
L3051	1-469-555-21	INDUCTOR	10µH	Q3011	8-729-424-02	TRANSISTOR 2SB709	
L3089	1-414-233-22	FERRITE	0μH	Q3014	8-729-424-02	TRANSISTOR 2SB709/	
L3112	1-469-555-21	INDUCTOR	10µH	Q3014 Q3015	8-729-424-02	TRANSISTOR 2SB709/	
L3113	1-469-555-21	INDUCTOR	10μH	Q3013	0-129-424-02	TRANSISTOR 25B109F	4-QK3-1A
L3301	1-412-058-11	INDUCTOR	10µH	Q3016	8-729-424-02	TRANSISTOR 2SB709A	
L3302	1-469-555-21	INDUCTOR	10µH	Q3017	8-729-424-02	TRANSISTOR 2SB709A	N-QRS-TX
L3303	1-412-052-21	INDUCTOR	1µH	Q3018	8-729-422-27	TRANSISTOR 2SD601/	A-QRS-TX
L3304	1-469-555-21	INDUCTOR	10µH	Q3021	8-729-422-27	TRANSISTOR 2SD601/	A-QRS-TX
L3305	1-469-555-21	INDUCTOR	10µH	Q3022	8-729-422-27	TRANSISTOR 2SD601/	A-QRS-TX
20000	1 400 000 21	INDOOTOR	Ισμι				
L3306	1-469-561-21	INDUCTOR	100μH	Q3023	8-729-422-27	TRANSISTOR 2SD601/	
L3307	1-469-555-21	INDUCTOR	10µH	Q3025	8-729-422-27	TRANSISTOR 2SD601/	
L3308	1-469-561-21	INDUCTOR	100µH	Q3026	8-729-422-27	TRANSISTOR 2SD601/	A-QRS-TX
L3309	1-469-561-21	INDUCTOR	100µH	Q3027	8-729-422-27	TRANSISTOR 2SD601/	A-QRS-TX
L3310	1-469-561-21	INDUCTOR	100µH	Q3035	8-729-422-27	TRANSISTOR 2SD601/	A-QRS-TX
20010	1 100 001 21	mbooron.	100µ11				
L3311	1-469-561-21	INDUCTOR	100µH	Q3036	8-729-422-27	TRANSISTOR 2SD601/	
L3312	1-469-555-21	INDUCTOR	10μH	Q3037	8-729-422-27	TRANSISTOR 2SD601/	A-QRS-TX
L3401	1-412-052-21	INDUCTOR	1μH	Q3038	8-729-422-27	TRANSISTOR 2SD601/	A-QRS-TX
L3402	1-412-052-21	INDUCTOR	1µH	Q3039	8-729-422-27	TRANSISTOR 2SD601/	A-QRS-TX
L3403	1-469-561-21	INDUCTOR	100µH	Q3040	8-729-422-27	TRANSISTOR 2SD601/	A-QRS-TX
20100	1 100 001 21	INDOOTOR(Ισομιί	•••			
L3404	1-469-561-21	INDUCTOR	100µH	Q3049	8-729-422-27	TRANSISTOR 2SD601/	
L3405	1-469-555-21	INDUCTOR	10μH	Q3051	8-729-424-02	TRANSISTOR 2SB709A	
L3406	1-469-555-21	INDUCTOR	10μH	Q3053	8-729-424-02	TRANSISTOR 2SB709A	N-QRS-TX
L3407	1-469-555-21	INDUCTOR	10µH	Q3054	8-729-422-27	TRANSISTOR 2SD601/	A-QRS-TX
L3409	1-469-555-21	INDUCTOR	10µH	Q3056	8-729-424-02	TRANSISTOR 2SB709A	A-QRS-TX
				02050	0 700 404 00	TDANICICTOD 200700A	A ODC TV
L3410	1-412-052-21	INDUCTOR	1μH	Q3058	8-729-424-02	TRANSISTOR 2SB709/	
L3411	1-412-058-11	INDUCTOR	10μH	Q3089	8-729-424-02	TRANSISTOR 2SB709A	
L3412	1-469-555-21	INDUCTOR	10μH	Q3090	8-729-424-02	TRANSISTOR 2SB709A	
L3413	1-469-555-21	INDUCTOR	10μH	Q3091	1-801-806-11	TRANSISTOR DTC144	
L3414	1-469-555-21	INDUCTOR	10μH	Q3101	8-729-422-27	TRANSISTOR 2SD601/	A-QRS-TX
L3416	1-469-555-21	INDUCTOR	10µH	Q3102	8-729-422-27	TRANSISTOR 2SD601/	A-QRS-TX
L3601	1-469-555-21	INDUCTOR	10µH	Q3103	8-729-424-02	TRANSISTOR 2SB709A	A-QRS-TX
L3602	1-412-951-11	INDUCTOR		Q3104	8-729-424-02	TRANSISTOR 2SB709A	
			10µH	Q3110	8-729-424-02	TRANSISTOR 2SB709A	
L3603	1-469-555-21	INDUCTOR	10µH	Q3111	8-729-424-02	TRANSISTOR 2SB709A	
L3604	1-412-951-11	INDUCTOR	10μH	QJIII	0-120-424-02	TIVALIOIO FOIX ZODI OSI	T-Q110-171
L3605	1-469-555-21	INDUCTOR	10μH	Q3112	8-729-424-02	TRANSISTOR 2SB709A	A-QRS-TX
L3606	1-469-555-21	INDUCTOR	10µH	Q3201	8-729-422-27	TRANSISTOR 2SD601/	A-QRS-TX
L3607	1-469-555-21	INDUCTOR	10μH	Q3202	8-729-422-27	TRANSISTOR 2SD601/	
				Q3203	8-729-424-02	TRANSISTOR 2SB709A	
L3608	1-414-754-11	INDUCTOR	10µH	Q3204	8-729-424-02	TRANSISTOR 2SB709/	
L3609	1-414-754-11	INDUCTOR	10μH	QUZUT	0 1 EU 7E7-UE	110 11010 1010 2001 09/	. 4.10 171
	TRANSISTOR			Q3205	8-729-422-27	TRANSISTOR 2SD601/	
Q3001	8-729-422-27	TRANSISTOR 2SD601	A-ORS-TX	Q3206	8-729-422-27	TRANSISTOR 2SD601/	
Q3001 Q3002	8-729-422-27	TRANSISTOR 2SD601		Q3207	8-729-424-02	TRANSISTOR 2SB709A	
Q3002 Q3003	8-729-424-02	TRANSISTOR 2SB709	", "	Q3208	8-729-422-27	TRANSISTOR 2SD601/	A-QRS-TX
				Q3209	8-729-422-27	TRANSISTOR 2SD601/	A-QRS-TX
Q3005	8-729-422-27	TRANSISTOR 2SD601	M-WNO-1V				



REF. NO.	PART NO.	DESCRIPTION	VALUES	8			REF. NO.	PART NO.	DESCRIPTION	VALUE	:S	
Q3210	8-729-424-02	TRANSISTOR 2SB70	9Δ-ORS-TX				R3009	1-218-710-11	METAL CHIP	5.6K	0.50%	1/16W
Q3211	1-801-806-11	TRANSISTOR DTC14					R3010	1-218-716-11	METAL CHIP	10K	0.50%	
Q3211	8-729-422-27	TRANSISTOR 2SD60					R3011	1-216-821-11	RES-CHIP	1K	5%	1/16W
										Ш	J /0	1/1000
Q3214	8-729-424-02	TRANSISTOR 2SB70					R3012	1-216-864-11	SHORT	000	5 0/	4/40/4/
Q3215	8-729-424-02	TRANSISTOR 2SB70					R3013	1-216-813-11	RES-CHIP	220	5%	1/16W
Q3216	8-729-422-27	TRANSISTOR 2SD60	1A-QRS-TX				R3014	1-218-676-11	METAL CHIP	220	0.50%	1/16W
Q3217	8-729-422-27	TRANSISTOR 2SD60	1A-QRS-TX				R3015	1-216-864-11	SHORT			
Q3301	8-729-422-27	TRANSISTOR 2SD60	1A-QRS-TX				R3017	1-216-809-11	RES-CHIP	100	5%	1/16W
Q3302	8-729-422-27	TRANSISTOR 2SD60	114-0RS-TY				R3018	1-216-817-11	RES-CHIP	470	5%	1/16W
Q3302	8-729-422-27	TRANSISTOR 2SD60					R3019	1-218-686-11	METAL CHIP	560		1/16W
							R3020	1-216-809-11	RES-CHIP	100	5%	1/16W
Q3304	8-729-422-27	TRANSISTOR 2SD60										
Q3305	8-729-424-02	TRANSISTOR 2SB70					R3021	1-216-809-11	RES-CHIP	100	5%	1/16W
Q3401	8-729-422-27	TRANSISTOR 2SD60	11A-QRS-TX				R3022	1-216-809-11	RES-CHIP	100	5%	1/16W
Q3402	8-729-028-28	TRANSISTOR 2SK20	36(TE85L)				R3023	1-216-833-11	RES-CHIP	10K	5%	1/16W
Q3403	8-729-422-27	TRANSISTOR 2SD60	. ,				R3024	1-216-809-11	RES-CHIP	100	5%	1/16W
Q3404	8-729-028-28	TRANSISTOR 2SK20					R3025	1-216-809-11	RES-CHIP	100	5%	1/16W
Q3405	8-729-424-02	TRANSISTOR 2SB70	. ,				R3026	1-216-035-00	RES-CHIP	270	5%	1/10W
Q3406	8-729-424-02	TRANSISTOR 2SB70					R3027	1-218-684-11	METAL CHIP	470		1/16W
Q3 4 00	0-723-424-02	TIVANOISTON 25B70	JA-QINO-IA				110027	1 210 001 11	MEDIE OTH	110	0.0070	1/1011
Q3407	8-729-422-27	TRANSISTOR 2SD60	1A-QRS-TX				R3028	1-218-688-11	METAL CHIP	680	0.50%	1/16W
Q3408	8-729-424-02	TRANSISTOR 2SB70					R3029	1-218-704-11	METAL CHIP	3.3K	0.50%	1/16W
Q3409	8-729-422-27	TRANSISTOR 2SD60					R3030	1-216-864-11	SHORT	0.011	0.0070	1, 1011
										100	E0/	1/16/1/
Q3410	8-729-424-02	TRANSISTOR 2SB70					R3035	1-216-809-11	RES-CHIP	100	5%	1/16W
Q3411	8-729-424-02	TRANSISTOR 2SB70	9A-QRS-TX				R3036	1-216-809-11	RES-CHIP	100	5%	1/16W
Q3412	8-729-424-02	TRANSISTOR 2SB70	9A-QRS-TX				R3037	1-216-809-11	RES-CHIP	100	5%	1/16W
Q3413	8-729-424-02	TRANSISTOR 2SB70	9A-QRS-TX				R3038	1-218-686-11	METAL CHIP	560	0.50%	1/16W
Q3414	8-729-424-02	TRANSISTOR 2SB70	9A-QRS-TX				R3039	1-218-686-11	METAL CHIP	560	0.50%	1/16W
Q3415	8-729-424-02	TRANSISTOR 2SB70					R3040	1-218-686-11	METAL CHIP	560	0.50%	1/16W
Q3603	8-729-422-27	TRANSISTOR 2SD60					R3042	1-216-821-11	RES-CHIP	1K	5%	1/16W
QOOOO	0 120 122 21	110 11010 1010 20000	7177 Q110 177									
Q3604	8-729-422-27	TRANSISTOR 2SD60	1A-QRS-TX				R3043	1-216-837-11	RES-CHIP	22K	5%	1/16W
Q3605	8-729-422-27	TRANSISTOR 2SD60					R3044	1-216-837-11	RES-CHIP	22K	5%	1/16W
Q3606	8-729-422-27	TRANSISTOR 2SD60					R3045	1-216-817-11	RES-CHIP	470	5%	1/16W
Q3609	8-729-422-27	TRANSISTOR 2SD60					R3046	1-216-817-11	RES-CHIP	470	5%	1/16W
Q3610		TRANSISTOR 2SD60					R3047	1-216-809-11	RES-CHIP	100	5%	1/16W
Q3010	8-729-422-27	TRANSISTOR 25D00	M-UNO-IA				113047	1-210-003-11	NEO-OTIII	100	J /0	1/1044
Q3611	8-729-422-27	TRANSISTOR 2SD60	1A-QRS-TX				R3048	1-216-809-11	RES-CHIP	100	5%	1/16W
Q3612	8-729-422-27	TRANSISTOR 2SD60	1A-QRS-TX				R3049	1-216-809-11	RES-CHIP	100	5%	1/16W
Q3613	8-729-422-27	TRANSISTOR 2SD60	1A-QRS-TX				R3050	1-216-809-11	RES-CHIP	100	5%	1/16W
Q3617	8-729-422-27	TRANSISTOR 2SD60	1A-QRS-TX				R3051	1-216-845-11	RES-CHIP	100K	5%	1/16W
Q3618	8-729-422-27	TRANSISTOR 2SD60					R3052	1-216-845-11	RES-CHIP	100K	5%	1/16W
Q3619	8-729-422-27	TRANSISTOR 2SD60					R3053	1-216-845-11	RES-CHIP	100K	5%	1/16W
Q3620	8-729-422-27	TRANSISTOR 2SD60					110000	1 210 040 11	INEO OTIII	10010	0 /0	1/1011
Q3020	0-125-422-21	TRANSISTOR ZSD00	MA-QNO-IA				R3056	1-216-817-11	RES-CHIP	470	5%	1/16W
	RESISTOR						R3057	1-216-817-11	RES-CHIP	470	5%	1/16W
R3001	1-216-805-11	RES-CHIP	47	5%	1/16W	1	R3058	1-216-835-11	RES-CHIP	15K	5%	1/16W
R3002	1-216-805-11	RES-CHIP	47	5%	1/16W		R3059	1-216-817-11	RES-CHIP	470	5%	1/16W
R3003	1-216-842-11	RES-CHIP	56K	5%	1/16W	1	R3060	1-216-809-11	RES-CHIP	100	5%	1/16W
R3004	1-216-818-11	RES-CHIP	560	5%	1/16W	1						
R3005	1-216-821-11	RES-CHIP	1K	5%	1/16W		R3061	1-216-829-11	RES-CHIP	4.7K	5%	1/16W
110000	1 210 021-11	INEO OF III	111	U /U	1/ 1044	1	R3062	1-218-697-11	METAL CHIP	1.6K	0.50%	1/16W
R3006	1-216-817-11	RES-CHIP	470	5%	1/16W		R3063	1-218-716-11	METAL CHIP	10K	0.50%	1/16W
						1	R3064	1-218-696-11	METAL CHIP	1.5K	0.50%	
R3007	1-218-686-11	METAL CHIP	560	0.50%	1/16W		R3066	1-216-809-11	RES-CHIP	100	5%	1/16W
						•					-	



R0867 1-28-848-11 RES-CHP 100K 5% 119W R3130 1-28-837-11 RES-CHP 2ZK 5% 116W R0818 1-28-838-11 RES-CHP 100 5% 119W R3131 1-28-837-11 RES-CHP 2ZK 5% 116W R0872 1-28-837-11 RES-CHP 10K 5% 119W R3131 1-28-837-11 RES-CHP 2ZK 5% 116W R0872 1-28-837-11 RES-CHP 10K 5% 119W R3131 1-28-837-11 RES-CHP 2ZK 5% 116W R0872 1-28-837-11 RES-CHP 10K 5%	REF. NO.	PART NO.	DESCRIPTION	VALUE	ES			REF. NO.	PART NO.	DESCRIPTION	VALUE	-s	
R308						4/40\M							4/40\4/
R3071 1-216-821-11 RES-CHIP													
R8372 -1216-43511 RES-CHIP 10K 5% 116W R314 -1216-8211 RES-CHIP 2K 5% 116W R3174 -1216-4211 RES-CHIP 47 5% 116W R3174 -1216-4211 RES-CHIP 1K 5% 116W R3174 -1216-4211 RES-CHIP 1K 5% 116W R3177 -1216-4211 RES-CHIP 1K 5% 116W R3179 -1216-4211 RES-CHIP 1K 5% 116W R3179 -1216-4211 RES-CHIP 1K 5% 116W R3198 -1216-4211 RES-CHIP 1K 5% 116W R3199 -1216-4211 RES-CHIP 1K 5% 116W R3199 -1216-4211 RES-CHIP 1K 5% 116W R3199 -1216-4211 RES-CHIP 1K 5% 116W R3190 -1216-4311 RES-CHIP 2K													
R0373 1-216-80-11 RES-CHIP 47 5% 1/16W R3154 1-216-82-11 RES-CHIP 22K 5% 1/16W R3075 1-216-82-11 RES-CHIP 1K 5% 1/16W R3167 1-216-82-11 RES-CHIP 1K 5% 1/16W R3169 1-216-82-11 RES-CHIP 2K 5% 1/16W R31													
R3074 1-276-80-11 RES-CHIP		1-216-833-11							1-216-837-11		22K	5%	
R3075 1-216-82-1-11 RES-CHIP 1K 5% 1/16W R3157 1-216-82-1-11 RES-CHIP 1K 5% 1/16W R3159 1-216-83-1-11 RES-CHIP 1K 5% 1/16W R3159 1-216-83-1-11 RES-CHIP 1K 5% 1/16W R3159 1-216-83-1-11 RES-CHIP 47 5% 1/16W R3159 1-216-83-1-11 RES-CHIP 27 5% 1/16W R3159 1-216-83-1-11 RES-CHIP 27 27 27 27 27 27 28 27 27	R3073	1-216-805-11	RES-CHIP	47	5%	1/16W		R3134	1-216-837-11	RES-CHIP	22K	5%	1/16W
R3075 1-216-82-11 RES-CHIP 1K 5% 1/16W R3157 1-216-82-11 RES-CHIP 1K 5% 1/16W R3158 1-216-83-11 RES-CHIP 2K 5% 1/16W R315	R3074	1-216-805-11	RES-CHIP	47	5%	1/16W		R3135	1-216-821-11	RES-CHIP	1K	5%	1/16W
R3076 1-216-821-11 RES-CHIP 1K 5% 116W R3172 1-216-821-11 RES-CHIP 1K 5% 116W R3173 1-216-831-11 RES-CHIP 1K 5% 116W R3173 1-216-831-11 RES-CHIP 1K 5% 116W R3173 1-216-831-11 RES-CHIP 2K 5% 116W R317	R3075	1-216-821-11	RES-CHIP	1K	5%	1/16W							
R8076 1-216-821-11 RES-CHIP								R3136	1-216-821-11	RES-CHIP	1K	5%	1/16W
R8077 1-216-824-11 RES-CHIP 10 0 5% 1/16W R3138 1-216-821-11 RES-CHIP 1K 5% 1/16W R3079 1-216-824-11 RES-CHIP 1K 5% 1/16W R3140 1-216-821-11 RES-CHIP 2K 5% 1/16W R3150 1-216-821-11 RES-CHIP 1/16W R3150 1-216-821-11 RES-CHIP 2K 5% 1/16W R3150 1-216-821-11 RES-CHIP 2K 5% 1/16W R3150 1-216-821-11 RES-CHIP 2K 5% 1/16W R3150 1-216-821-11 RES-CHIP 1/16W 1/16W R3150 1-216-821-11 RES-CHIP 2K 5% 1/16W R3150 1-216-821-11 RES-CHIP 1/16W 1/16W R3150 1-216-821-11 RES-CHIP 1/	R3076	1-216-821-11	RES-CHIP	1K	5%	1/16W							
R378 1-2/16-82-11 RES-CHIP 8.ZK 5% 1/16W R3139 1-2/16-82-11 RES-CHIP 1K 5% 1/16W R3140 1-2/16-82-11 RES-CHIP 1/16W 1/16W R3141 1-2/16-82-11 RES-CHIP 47 5% 1/16W R3141 1-2/16-82-11 RES-CHIP 2/2K 5% 1/16W R3145 1-2/16-													
R3090 1-216-845-11 RES-CHIP 1K 5% 1/16W R3141 1-216-821-11 RES-CHIP 1K 5% 1/16W R3141 1-216-831-11 RES-CHIP 1K 5% 1/16W R3141 1-216-831-11 RES-CHIP 47 5% 1/16W R3143 1-216-831-11 RES-CHIP 2ZK 5% 1/16W R3145 1-216-831-11 RES-CHIP 2ZK													
R3080 1-216-845-11 RES-CHIP 100K 5% 1/16W R3141 1-216-833-11 RES-CHIP 10K 5% 1/16W R3142 1-216-805-11 RES-CHIP 47 5% 1/16W R3142 1-216-805-11 RES-CHIP 47 5% 1/16W R3143 1-216-805-11 RES-CHIP 47 5% 1/16W R3143 1-216-805-11 RES-CHIP 47 5% 1/16W R3083 1-216-805-11 RES-CHIP 20X 5% 1/16W R3083 1-216-805-11 RES-CHIP 20X 5% 1/16W R3083 1-216-805-11 RES-CHIP 20X 5% 1/16W R3086 1-216-805-11 RES-CHIP 20X 5% 1/16W R3087 1-216-805-11 RES-CHIP 20X 5% 1/16W R3087 1-216-805-11 RES-CHIP 20X 5% 1/16W R3088 1-216-805-11 RES-CHIP 20X 5% 1/16W R3088 1-216-805-11 RES-CHIP 20X 5% 1/16W R3088 1-216-805-11 RES-CHIP 2-20X 5% 1/16W R3089 1-216-805-11 RES-CHIP 2-20X 5% 1/16W R3090 1-216-805-11 RES-CHIP 100 5% 1/16W R3159 1-216-805-11 RES-CHIP 2-20X 5% 1/16W R3160 1-216-805-11 RES-CHIP 2-20X													
R3081 1-268-80-11 RES-CHIP 100 5% 1/16W R3142 1-268-80-11 RES-CHIP 47 5% 1/16W R3082 1-268-84-11 RES-CHIP 100 5% 1/16W R3143 1-268-80-11 RES-CHIP 47 5% 1/16W R3083 1-268-84-11 SHORT R3144 1-268-83-71 RES-CHIP 22K 5% 1/16W R3083 1-268-84-11 SHORT R3145 1-268-83-71 RES-CHIP 22K 5% 1/16W R3086 1-268-84-11 SHORT R3145 1-268-83-71 RES-CHIP 22K 5% 1/16W R3086 1-268-84-11 SHORT R3145 1-268-83-71 RES-CHIP 22K 5% 1/16W R3086 1-268-84-11 SHORT R3145 1-268-83-11 RES-CHIP 22K 5% 1/16W R3086 1-268-84-11 SHORT R3145 1-268-83-11 RES-CHIP 22K 5% 1/16W R3086 1-268-84-11 SHORT R3145 1-268-83-11 RES-CHIP 22K 5% 1/16W R3086 1-268-84-11 SHORT R3145 1-268-83-11 RES-CHIP 22K 5% 1/16W R3080 1-268-83-11 RES-CHIP 22K 5% 1/16W R3156 1-268-83-11 RES-CHIP 500 5% 1/16W R3092 1-268-83-11 RES-CHIP 22K 5% 1/16W R3156 1-268-83-11 RES-CHIP 47K 5% 1/16W R3093 1-268-83-11 RES-CHIP 22K 5% 1/16W R3157 1-218-837-11 RES-CHIP 47K 5% 1/16W R3093 1-268-83-11 RES-CHIP 100 5% 1/16W R3159 1-268-83-11 RES-CHIP 22K 5% 1/16W R3169 1-268-83-11 RES-CHIP 100								K3140	1-210-021-11	KES-CHIP	IN	3%	1/1000
R3081 1-216-809-11 RES-CHIP 100 5% 1/16W R3142 1-216-805-11 RES-CHIP 47 5% 1/16W R3082 1-216-804-11 RES-CHIP 47 5% 1/16W R3143 1-216-805-11 RES-CHIP 2ZK 5% 1/16W R3144 1-216-807-11 RES-CHIP 2ZK 5% 1/16W R3145 1-216-807-11 RES-CHIP 2ZK 5% 1/16W R3083 1-216-804-11 SHORT R3145 1-216-807-11 RES-CHIP 2ZK 5% 1/16W R3087 1-216-804-11 SHORT R3145 1-216-807-11 RES-CHIP 2ZK 5% 1/16W R3087 1-216-804-11 SHORT R3147 1-216-807-11 RES-CHIP 2ZK 5% 1/16W R3087 1-216-804-11 SHORT R3145 1-216-807-11 RES-CHIP 2ZK 5% 1/16W R3088 1-216-804-11 SHORT R3151 1-216-807-11 RES-CHIP 2ZK 5% 1/16W R3089 1-216-804-11 SHORT R3151 1-216-807-11 RES-CHIP 2ZK 5% 1/16W R3092 1-216-804-11 RES-CHIP 2ZK 5% 1/16W R3159 1-216-807-11 RES-CHIP 8ZK 5% 1/16W R3159 1-216-807-11 RES-CHIP 2ZK 5% 1/16W R3159 1-216-807-11 RES-CHIP 2ZK 5% 1/16W R3159 1-216-807-11 RES-CHIP 470 5% 1/16W R3159 1-216-807-11 RES-CHIP 2ZK 5% 1/16W R3151 1-216-807-11 RES-CHIP 100 5% 1/16W R3151 1-216-807-11 METAL CHIP 56K 0.50% 1/16W R3151 1-216-807-11 METAL CHIP 56K 0.50% 1/1	R3080	1-216-845-11	RES-CHIP	100K	5%	1/16VV		50111			4014	-0/	
R3082 1-216-884-11 RES-CHIP 100K 5% 1/16W R3144 1-216-837-11 RES-CHIP 22K 5% 1/16W R3083 1-216-808-11 SHORT R3144 1-216-837-11 RES-CHIP 22K 5% 1/16W R3164 1-216-837-11 RES-CHIP 22K 5% 1/16W R3168 1-216-884-11 SHORT R3147 1-216-837-11 RES-CHIP 22K 5% 1/16W R3168 1-216-884-11 SHORT R3147 1-216-837-11 RES-CHIP 22K 5% 1/16W R3169 1-216-825-11 RES-CHIP 22K 5% 1/16W R3156 1-216-841-11 RES-CHIP 8.2K 5% 1/16W R3156 1-216-841-11 RES-CHIP 8.2K 5% 1/16W R3158 1-216-841-11 RES-CHIP 47K 5% 1/16W R3159 1-216-841-11 RES-CHIP 47K 5% 1/16W R3161 1-216-801-11 RES-CHIP 5.6K 0.50% 1/16W													
R3083 1-216-884-11 SHORT R3144 1-216-837-11 RES-CHIP 22K 5% 1/16W													
R3084 1-216-864-11 SHORT R3145 1-216-837-11 RES-CHIP 22K 5% 1/16W R3086 1-216-864-11 SHORT R3146 1-216-832-11 RES-CHIP 22K 5% 1/16W R3086 1-216-864-11 SHORT R3147 1-216-837-11 RES-CHIP 22K 5% 1/16W R3087 1-216-864-11 SHORT R3147 1-216-837-11 RES-CHIP 22K 5% 1/16W R3088 1-216-861-11 RES-CHIP 22K 5% 1/16W R3159 1-216-861-11 RES-CHIP 22K 5% 1/16W R3090 1-216-861-11 RES-CHIP 2.2M 5% 1/16W R3159 1-216-832-11 RES-CHIP 2.2M 5% 1/16W R3091 1-216-825-11 RES-CHIP 2.2M 5% 1/16W R3159 1-216-837-11 RES-CHIP 22K 5% 1/16W R3092 1-216-825-11 RES-CHIP 2.2M 5% 1/16W R3159 1-216-837-11 RES-CHIP 2.2M 5% 1/16W R3093 1-216-837-11 RES-CHIP 100 5% 1/16W R3159 1-216-837-11 RES-CHIP 2.2M 5% 1/16W R3093 1-216-837-11 RES-CHIP 100 5% 1/16W R3159 1-216-837-11 RES-CHIP 2.2M 5% 1/16W R3093 1-216-837-11 RES-CHIP 100 5% 1/16W R3159 1-216-837-11 RES-CHIP 2.2M 5% 1/16W R3093 1-216-837-11 RES-CHIP 100 5% 1/16W R3159 1-216-837-11 RES-CHIP 2.2M 5% 1/16W R3097 1-216-837-11 RES-CHIP 2.2M 5% 1/16W R3097 1-216-837-11 RES-CHIP 2.2M 5% 1/16W R3097 1-216-809-11 RES-CHIP 100 5% 1/16W R3161 1-216-809-11 RES-CHIP 100 5% 1/16W R3161 1-216-809-11 RES-CHIP 5.6K 0.50% 1/16W R3161 1-216-809-11 RES-CHIP 5.6K 0.50% 1/16W R3161 1-216-809-11 RES-CHIP 100 5% 1/16W R3163 1-218-679-11 METAL CHIP 5.6K 0.50% 1/16W R3161 1-216-809-11 RES-CHIP 100 5% 1/16W R3161 1-218-679-11 METAL CHIP 160	R3082	1-216-845-11	RES-CHIP	100K	5%	1/16W		R3143	1-216-805-11	RES-CHIP	47	5%	1/16W
R3085 1-216-864-11 SHORT	R3083	1-216-864-11	SHORT					R3144	1-216-837-11	RES-CHIP	22K	5%	1/16W
R3085 1-216-864-11 SHORT	R3084	1-216-864-11	SHORT					R3145	1-216-837-11	RES-CHIP	22K	5%	1/16W
R3086 1-216-884-11 SHORT													
R3066								R3146	1-216-832-11	RES-CHIP	8 2K	5%	1/16W/
R3087 1-216-864-11 SHORT SHORT R3151 1-216-825-11 RES-CHIP 560 5% 1/16W R3090 1-216-861-11 SHORT SHORT R3152 1-216-818-11 RES-CHIP 560 5% 1/16W R3090 1-216-861-11 RES-CHIP 2.2M 5% 1/16W R3154 1-216-831-11 RES-CHIP 8.2K 5% 1/16W R3091 1-216-825-11 RES-CHIP 2.2K 5% 1/16W R3155 1-216-837-11 RES-CHIP 22K 5% 1/16W R3156 1-216-837-11 RES-CHIP 22K 5% 1/16W R3156 1-216-837-11 RES-CHIP 22K 5% 1/16W R3156 1-216-837-11 RES-CHIP 22K 5% 1/16W R3150 1-216-837-11 RES-CHIP 470 5% 1/16W R3093 1-216-809-11 RES-CHIP 100 5% 1/16W R3158 1-216-837-11 RES-CHIP 470 5% 1/16W R3094 1-216-845-11 RES-CHIP 100 5% 1/16W R3159 1-216-825-11 RES-CHIP 2.2K 5% 1/16W R3159 1-216-825-11 RES-CHIP 2.2K 5% 1/16W R3150 1-216-825-11 RES-CHIP 2.2K 5% 1/16W R3160 1-216-825-11 RES-CHIP 2.2K 5% 1/16W R3160 1-216-825-11 RES-CHIP 2.2K 5% 1/16W R3160 1-216-825-11 RES-CHIP 330 5% 1/16W R3160 1-216-805-11 RES-CHIP 330 5% 1/16W R3160 1-216-805-11 RES-CHIP 330 5% 1/16W R3160 1-216-805-11 RES-CHIP 56K 0.50% 1/16W R3160 1-216-805-11 RES-CHIP 56K 0.50% 1/16W R3160 1-216-805-11 RES-CHIP 100 5%	R3086	1_216_86/_11	SHORT										
R3088 1-216-864-11 SHORT													
R3089													
R3090 1-216-861-11 RES-CHIP 2.2M 5% 1/16W R3155 1-216-841-11 RES-CHIP 47K 5% 1/16W R3091 1-216-825-11 RES-CHIP 2.2K 5% 1/16W R3156 1-216-837-11 RES-CHIP 22K 5% 1/16W R3092 1-216-825-11 RES-CHIP 2.2K 5% 1/16W R3157 1-216-817-11 RES-CHIP 470 5% 1/16W R3093 1-216-809-11 RES-CHIP 100 5% 1/16W R3158 1-216-817-11 RES-CHIP 470 5% 1/16W R3094 1-216-809-11 RES-CHIP 100 5% 1/16W R3159 1-216-817-11 RES-CHIP 470 5% 1/16W R3159 1-216-825-11 RES-CHIP 470 5% 1/16W R3159 1-216-825-11 RES-CHIP 2.2K 5% 1/16W R3159 1-216-825-11 RES-CHIP 2.2K 5% 1/16W R3163 1-216-817-11 RES-CHIP 100 5% 1/16W R3161 1-216-809-11 RES-CHIP 100 5% 1/16W R3163 1-216-817-11 RES-CHIP 300 5% 1/16W R3163 1-216-817-11 METAL CHIP 5.6K 0.50% 1/16W R3100 1-216-809-11 RES-CHIP 100 5% 1/16W R3163 1-218-710-11 METAL CHIP 5.6K 0.50% 1/16W R3101 1-216-809-11 RES-CHIP 100 5% 1/16W R3163 1-218-710-11 METAL CHIP 5.6K 0.50% 1/16W R3101 1-216-809-11 RES-CHIP 100 5% 1/16W R3166 1-216-817-11 METAL CHIP 5.6K 0.50% 1/16W R3101 1-216-809-11 RES-CHIP 100 5% 1/16W R3165 1-216-801-11 RES-CHIP 2.2M 5% 1/16W R3101 1-216-809-11 RES-CHIP 100 5% 1/16W													
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R3091 1-216-825-11 RES-CHIP 2.2K 5% 1/16W R3156 1-216-837-11 RES-CHIP 22K 5% 1/16W R3159 1-216-807-11 RES-CHIP 470 5% 1/16W R3159 1-216-807-11 RES-CHIP 470 5% 1/16W R3159 1-216-807-11 RES-CHIP 470 5% 1/16W R3159 1-216-825-11 RES-CHIP 470 5% 1/16W R3159 1-216-825-11 RES-CHIP 2.2K 5% 1/16W R3160 1-216-825-11 RES-CHIP 100 5% 1/16W R3161 1-216-809-11 RES-CHIP 300 5% 1/16W R3162 1-216-809-11 RES-CHIP 300 5% 1/16W R3163 1-218-710-11 METAL CHIP 5.6K 0.50% 1/16W R3161 1-216-809-11 RES-CHIP 47 5% 1/16W R3163 1-218-710-11 METAL CHIP 5.6K 0.50% 1/16W R3161 1-216-809-11 RES-CHIP 2.2M 5% 1/16W R3162 1-216-809-11 RES-CHIP 300 5% 1/16W R3163 1-218-710-11 METAL CHIP 5.6K 0.50% 1/16W R3161 1-216-809-11 RES-CHIP 100 5% 1/16W R3162 1-216-801-11 RES-CHIP 5.6K 0.50% 1/16W R3163 1-218-809-11 RES-CHIP 100 5% 1/16W R3163 1-218-673-11 METAL CHIP 5.6K 0.50% 1/16W R3103 1-218-809-11 RES-CHIP 2.2M 5% 1/16W R3103 1-218-809-11 RES-CHIP 2.2M 5% 1/16W R3103 1-218-809-11 RES-CHIP 2.2K 5% 1/16W R3183 1-218-673-11 METAL CHIP 160 0.50% 1/16W R3103 1-218-809-11 RES-CHIP 100 5%	R3090	1-216-861-11	RES-CHIP	2.2M	5%	1/16W							
R3092 1-216-825-11 RES-CHIP 2.2K 5% 1/16W R3157 1-216-817-11 RES-CHIP 470 5% 1/16W R3033 1-216-809-11 RES-CHIP 100 5% 1/16W R3158 1-216-817-11 RES-CHIP 470 5% 1/16W R3093 1-216-809-11 RES-CHIP 100 5% 1/16W R3159 1-216-825-11 RES-CHIP 470 5% 1/16W R3095 1-216-845-11 RES-CHIP 100K 5% 1/16W R3161 1-216-809-11 RES-CHIP 100 5% 1/16W R3095 1-216-845-11 RES-CHIP 100K 5% 1/16W R3161 1-216-809-11 RES-CHIP 100 5% 1/16W R3097 1-216-845-11 RES-CHIP 100K 5% 1/16W R3162 1-216-815-11 RES-CHIP 330 5% 1/16W R3098 1-216-805-11 RES-CHIP 47 5% 1/16W R3163 1-218-710-11 METAL CHIP 5.6K 0.50% 1/16W R3100 1-216-809-11 RES-CHIP 100 5% 1/16W R3163 1-218-710-11 METAL CHIP 5.6K 0.50% 1/16W R3100 1-216-809-11 RES-CHIP 100 5% 1/16W R3165 1-216-801-11 RES-CHIP 2.2M 5% 1/16W R3100 1-216-809-11 RES-CHIP 100 5% 1/16W R3180 1-216-809-11 RES-CHIP 100 5% 1/16W R3181 1-216-609-11 RES-CHIP 100 5% 1/16W R3100 1-216-809-11 RES-CHIP 100 5% 1/16W R3100													
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R3094 1-216-809-11 RES-CHIP 100 5% 1/16W R3159 1-216-825-11 RES-CHIP 2.2K 5% 1/16W R3095 1-216-845-11 RES-CHIP 100K 5% 1/16W R3161 1-216-821-11 RES-CHIP 1K 5% 1/16W R3096 1-216-845-11 RES-CHIP 100K 5% 1/16W R3161 1-216-809-11 RES-CHIP 100 5% 1/16W R3162 1-216-815-11 RES-CHIP 330 5% 1/16W R3093 1-216-805-11 RES-CHIP 47 5% 1/16W R3163 1-216-710-11 METAL CHIP 5.6K 0.50% 1/16W R3163 1-216-805-11 RES-CHIP 100 5% 1/16W R3163 1-216-861-11 RES-CHIP 5.6K 0.50% 1/16W R3163 1-216-861-11 RES-CHIP 2.2M 5% 1/16W R3163 1-216-861-11 RES-CHIP 2.2M 5% 1/16W R3163 1-216-861-11 RES-CHIP 2.2M 5% 1/16W R3163 1-216-861-11 RES-CHIP 160 0.50% 1/16W R3163 1-216-809-11 RES-CHIP 100 5% 1/16W R3181 1-218-673-11 METAL CHIP 160 0.50% 1/16W R3163 1-216-809-11 RES-CHIP 100 5% 1/16W R3183 1-218-691-11 RES-CHIP 100 5% 1/16W R3193 1-218-691-11 RES-CHIP 100 5% 1/16W R3193 1-218-691-11 RES-CHIP 1.5K 5% 1/16W R3193 1-218-691-11 METAL CHIP 1.2K 5.5W 1/16W R3193 1-218-691-11 METAL CHIP 1.2K 5.5W 1/16W R3193 1-218-691-11 METAL CHIP 1.2K 5.5W 1/16W R3193 1-218-691-11	R3092	1-216-825-11	RES-CHIP	2.2K	5%	1/16W		R3157	1-216-817-11	RES-CHIP	470	5%	1/16W
R3095 1-216-845-11 RES-CHIP 100K 5% 1/16W R3160 1-216-809-11 RES-CHIP 100 5% 1/16W R3097 1-216-845-11 RES-CHIP 100K 5% 1/16W R3161 1-216-809-11 RES-CHIP 100 5% 1/16W R3098 1-216-805-11 RES-CHIP 47 5% 1/16W R3163 1-218-710-11 METAL CHIP 5.6K 0.50% 1/16W R3100 1-216-809-11 RES-CHIP 100 5% 1/16W R3101 1-216-809-11 RES-CHIP 100 5% 1/16W R3101 1-216-809-11 RES-CHIP 100 5% 1/16W R3103 1-216-809-11 RES-CHIP 100 5% 1/16W R3104 1-216-809-11 RES-CHIP 100 5% 1/16W R3105 1-216-809-11 RES-CHIP 100 5% 1/16W R3106 1-216-809-11 RES-CHIP 100 5% 1/16W R3108 1-216-809-11 RES-CHIP 100 5% 1/16W R3105 1-216-809-11 RES-CHIP 100 5% 1/16W R3105 1-216-809-11 RES-CHIP 100 5% 1/16W R3105 1-216-809-11 RES-CHIP 100 5% 1/16W R3108 1-216-809-11 RES-CHIP 100 5% 1/16W R3105 1-216-809-11	R3093	1-216-809-11	RES-CHIP	100	5%	1/16W		R3158	1-216-817-11	RES-CHIP	470	5%	1/16W
R3095 1-216-845-11 RES-CHIP 100K 5% 1/16W R3160 1-216-809-11 RES-CHIP 100 5% 1/16W R3097 1-216-845-11 RES-CHIP 100K 5% 1/16W R3161 1-216-809-11 RES-CHIP 100 5% 1/16W R3098 1-216-805-11 RES-CHIP 47 5% 1/16W R3163 1-218-710-11 METAL CHIP 5.6K 0.50% 1/16W R3100 1-216-809-11 RES-CHIP 100 5% 1/16W R3101 1-216-809-11 RES-CHIP 100 5% 1/16W R3101 1-216-809-11 RES-CHIP 100 5% 1/16W R3103 1-216-809-11 RES-CHIP 100 5% 1/16W R3104 1-216-809-11 RES-CHIP 100 5% 1/16W R3105 1-216-809-11 RES-CHIP 100 5% 1/16W R3106 1-216-809-11 RES-CHIP 100 5% 1/16W R3108 1-216-809-11 RES-CHIP 100 5% 1/16W R3105 1-216-809-11 RES-CHIP 100 5% 1/16W R3105 1-216-809-11 RES-CHIP 100 5% 1/16W R3105 1-216-809-11 RES-CHIP 100 5% 1/16W R3108 1-216-809-11 RES-CHIP 100 5% 1/16W R3105 1-216-809-11					5%	1/16W							1/16W
R3096 1-216-817-11 RES-CHIP 470 5% 1/16W R3161 1-216-809-11 RES-CHIP 100 5% 1/16W R3162 1-216-815-11 RES-CHIP 330 5% 1/16W R3163 1-216-815-11 RES-CHIP 330 5% 1/16W R3163 1-216-815-11 RES-CHIP 330 5% 1/16W R3163 1-216-815-11 RES-CHIP 356 56K 0.50% 1/16W R3160 1-216-809-11 RES-CHIP 47 5% 1/16W R3164 1-218-710-11 METAL CHIP 5.6K 0.50% 1/16W R3100 1-216-809-11 RES-CHIP 100 5% 1/16W R3164 1-218-710-11 METAL CHIP 5.6K 0.50% 1/16W R3101 1-216-809-11 RES-CHIP 100 5% 1/16W R3166 1-216-861-11 RES-CHIP 2.2M 5% 1/16W R3102 1-216-809-11 RES-CHIP 100 5% 1/16W R3180 1-218-673-11 METAL CHIP 160 0.50% 1/16W R3103 1-216-809-11 RES-CHIP 22K 5% 1/16W R3181 1-218-673-11 METAL CHIP 160 0.50% 1/16W R3105 1-216-809-11 RES-CHIP 22K 5% 1/16W R3182 1-218-673-11 METAL CHIP 160 0.50% 1/16W R3105 1-216-809-11 RES-CHIP 22K 5% 1/16W R3183 1-218-673-11 METAL CHIP 160 0.50% 1/16W R3105 1-216-809-11 RES-CHIP 100 5% 1/16W R3183 1-218-673-11 METAL CHIP 160 0.50% 1/16W R3105 1-216-809-11 RES-CHIP 100 5% 1/16W R3183 1-218-673-11 METAL CHIP 160 0.50% 1/16W R3107 1-216-809-11 RES-CHIP 100 5% 1/16W R3183 1-218-673-11 METAL CHIP 180 0.50% 1/16W R3107 1-216-809-11 RES-CHIP 100 5% 1/16W R3184 1-218-674-11 METAL CHIP 180 0.50% 1/16W R3121 1-216-809-11 RES-CHIP 100 5% 1/16W R3185 1-218-674-11 METAL CHIP 180 0.50% 1/16W R3121 1-216-809-11 RES-CHIP 1.5K 0.50% 1/16W R3191 1-218-694-11 METAL CHIP 12K 0.50% 1/16W R3122 1-216-803-11 RES-CHIP 1.5K 0.50% 1/16W R3191 1-218-694-11 METAL CHIP 1.2K 0.50% 1/16W R3123 1-216-803-11 RES-CHIP 1.5K 0.50% 1/16W R3192 1-216-804-11 METAL CHIP 1.2K 0.50% 1/16W R3122 1-216-803-11 RES-CHIP 1.5K													
R3096 1-216-817-11 RES-CHIP 470 5% 1/16W R3161 1-216-809-11 RES-CHIP 100 5% 1/16W R3097 1-216-845-11 RES-CHIP 100K 5% 1/16W R3162 1-216-815-11 RES-CHIP 330 5% 1/16W R3098 1-216-805-11 RES-CHIP 47 5% 1/16W R3163 1-218-710-11 METAL CHIP 5.6K 0.50% 1/16W R3100 1-216-809-11 RES-CHIP 100 5% 1/16W R3165 1-216-861-11 RES-CHIP 5.6K 0.50% 1/16W R3100 1-216-809-11 RES-CHIP 100 5% 1/16W R3165 1-216-861-11 RES-CHIP 2.2M 5% 1/16W R3101 1-216-809-11 RES-CHIP 100 5% 1/16W R3166 1-216-861-11 RES-CHIP 2.2M 5% 1/16W R3103 1-216-809-11 RES-CHIP 2.2K 5% 1/16W R3181 1-218-673-11 METAL CHIP 160 0.50% 1/16W R3103 1-216-837-11 RES-CHIP 22K 5% 1/16W R3181 1-218-673-11 METAL CHIP 160 0.50% 1/16W R3105 1-216-809-11 RES-CHIP 100 5% 1/16W R3182 1-218-673-11 METAL CHIP 160 0.50% 1/16W R3105 1-216-809-11 RES-CHIP 22K 5% 1/16W R3183 1-216-809-11 RES-CHIP 100 5% 1/16W R3183 1-218-674-11 METAL CHIP 180 0.50% 1/16W R3123 1-216-809-11 RES-CHIP 100 5% 1/16W R3183 1-218-674-11 METAL CHIP 180 0.50% 1/16W R3123 1-216-809-11 RES-CHIP 1.5K 0.50% 1/16W R3191 1-218-694-11 METAL CHIP 1.2K 0.50% 1/16W R3123 1-216-803-11 RES-CHIP 1.5K 0.50% 1/16W R3191 1-218-694-11 METAL CHIP 1.2K 0.50% 1/16W R3123 1-216-803-11 RES-CHIP 1.5K 0.50% 1/16W R3191 1-218-694-11 METAL CHIP 1.2K 0.50% 1/16W R3123 1-216-803-11 RES-CHIP 1.5K 0.50% 1/16W R3191 1-218-694-11 METAL CHIP 1.2K 0.50% 1/16W R3123	110000	121001011	1120 01111	10011	0 70	1,1011		R3160	1-216-821-11	RES-CHIP	1K	5%	1/16\//
R3097 1-216-845-11 RES-CHIP 100K 5% 1/16W R3162 1-216-815-11 RES-CHIP 330 5% 1/16W R3098 1-216-805-11 RES-CHIP 47 5% 1/16W R3163 1-218-710-11 METAL CHIP 5.6K 0.50% 1/16W R3100 1-216-809-11 RES-CHIP 100 5% 1/16W R3164 1-218-710-11 METAL CHIP 5.6K 0.50% 1/16W R3100 1-216-809-11 RES-CHIP 100 5% 1/16W R3165 1-216-861-11 RES-CHIP 2.2M 5% 1/16W R3101 1-216-809-11 RES-CHIP 100 5% 1/16W R3166 1-216-861-11 RES-CHIP 2.2M 5% 1/16W R3103 1-216-837-11 RES-CHIP 22K 5% 1/16W R3180 1-218-673-11 METAL CHIP 160 0.50% 1/16W R3104 1-216-809-11 RES-CHIP 100 5% 1/16W R3181 1-216-809-11 RES-CHIP 100 5% 1/16W R3182 1-216-809-11 RES-CHIP 100 5% 1/16W R3183 1-216-809-11 RES-CHIP 180 0.50% 1/16W R3183 1-216-809-11 RES-CHIP 1.5K 0.50% 1/16W R3191 1-218-694-11 METAL CHIP 180 0.50% 1/16W R3124 1-216-809-11 RES-CHIP 1.5K 0.50% 1/16W R3191 1-216-809-11 METAL CHIP 1.5K 0.50% 1/16W R3192 1-216-809-	D3006	1_016_017_11	DEC CHID	470	50/	1/16\\\							
R3098 1-216-805-11 RES-CHIP 47 5% 1/16W R3163 1-218-710-11 METAL CHIP 5.6K 0.50% 1/16W R3100 1-216-809-11 RES-CHIP 100 5% 1/16W R3164 1-218-710-11 METAL CHIP 5.6K 0.50% 1/16W R3100 1-216-809-11 RES-CHIP 100 5% 1/16W R3164 1-218-710-11 METAL CHIP 5.6K 0.50% 1/16W R3101 1-216-809-11 RES-CHIP 100 5% 1/16W R3166 1-216-861-11 RES-CHIP 2.2M 5% 1/16W R3102 1-216-809-11 RES-CHIP 100 5% 1/16W R3180 1-218-673-11 METAL CHIP 160 0.50% 1/16W R3103 1-216-809-11 RES-CHIP 22K 5% 1/16W R3181 1-218-673-11 METAL CHIP 160 0.50% 1/16W R3103 1-216-809-11 RES-CHIP 100 5% 1/16W R3181 1-218-673-11 METAL CHIP 160 0.50% 1/16W R3105 1-216-809-11 RES-CHIP 100 5% 1/16W R3183 1-216-809-11 RES-CHIP 100 5% 1/16W R3183 1-216-809-11 RES-CHIP 100 5% 1/16W R3183 1-216-809-11 RES-CHIP 100 5% 1/16W R3185 1-216-809-11 RES-CHIP 100 5% 1/16W R3185 1-216-809-11 RES-CHIP 100 5% 1/16W R3185 1-216-809-11 RES-CHIP 100 5% 1/16W R3181 1-218-674-11 METAL CHIP 180 0.50% 1/16W R3123 1-218-690-11 RES-CHIP 100 5% 1/16W R3185 1-216-809-11 RES-CHIP 180 0.50% 1/16W R3123 1-218-690-11 METAL CHIP 180 0.50% 1/16W R3123 1-218-690-11 METAL CHIP 1.5K 0.50% 1/16W R3190 1-216-825-11 METAL CHIP 12K 0.50% 1/16W R3124 1-216-803-11 METAL CHIP 1.5K 0.50% 1/16W R3191 1-218-694-11 METAL CHIP 1.2K 0.50% 1/16W R3125 1-216-823-11 RES-CHIP 1.5K 0.50% 1/16W R3191 1-218-694-11 METAL CHIP 1.2K 0.50% 1/16W R3126 1-216-823-11 RES-CHIP 1.5K 0.50% 1/16W R3191 1-218-694-11 METAL CHIP 1.8K 0.50% 1/16W R3128 1-216-803-11 RES-CHIP 1.5K 0.50% 1/16W R3191 1-216-808-11 METAL CHIP 1.8K 0.50% 1/16W R3128 1-216-803-11 RES-CHIP 1.5K 0.50% 1/16W R3191 1-216-808-11 METAL CHIP													
R3099 1-216-805-11													
R3100													
R3101 1-216-809-11 RES-CHIP 100 5% 1/16W R3166 1-216-861-11 RES-CHIP 2.2M 5% 1/16W R3102 1-216-809-11 RES-CHIP 100 5% 1/16W R3180 1-218-673-11 METAL CHIP 160 0.50% 1/16W R3103 1-218-809-11 RES-CHIP 22K 5% 1/16W R3181 1-218-673-11 METAL CHIP 160 0.50% 1/16W R3104 1-216-809-11 RES-CHIP 100 5% 1/16W R3182 1-218-673-11 METAL CHIP 160 0.50% 1/16W R3105 1-216-809-11 RES-CHIP 100 5% 1/16W R3183 1-218-809-11 RES-CHIP 100 5% 1/16W R3183 1-218-809-11 RES-CHIP 100 5% 1/16W R3184 1-218-809-11 RES-CHIP 100 5% 1/16W R3185 1-218-809-11 RES-CHIP 100 5% 1/16W R3181 1-218-809-11 RES-CHIP 180 0.50% 1/16W R3121 1-218-809-11 RES-CHIP 1.5K 0.50% 1/16W R3190 1-218-809-11 RES-CHIP 2.2K 5% 1/16W R3124 1-218-809-11 RES-CHIP 1.5K 0.50% 1/16W R3191 1-218-809-11 METAL CHIP 1.2K 0.50% 1/16W R3125 1-216-823-11 RES-CHIP 1.5K 5% 1/16W R3191 1-218-898-11 METAL CHIP 1.2K 0.50% 1/16W R3126 1-216-823-11 RES-CHIP 1.5K 5% 1/16W R3192 1-216-814-11 RES-CHIP 2.2K 5% 1/16W R3127 1-216-829-11 RES-CHIP 4.7K 5% 1/16W R3194 1-216-825-11 RES-CHIP 2.2K 5% 1/16W R3128 1-216-829-11 RES-CHIP 4.7K 5% 1/16W R3194 1-216-825-11 RES-CHIP 2.2K 5% 1/16W R3128 1-216-829-11 RES-CHIP 4.7K 5% 1/16W R3194 1-216-825-11 RES-CHIP 2.2K 5% 1/16W R3128 1-216-829-11 RES-CHIP 4.7K 5% 1/16W R3194 1-216-825-11 RES-CHIP 2.2K 5% 1/16W R3128 1-216-829-11 RES-CHIP								R3164	1-218-710-11	METAL CHIP	5.6K	0.50%	1/1677
R3101 1-216-809-11 RES-CHIP 100 5% 1/16W R3166 1-216-861-11 RES-CHIP 2.2M 5% 1/16W R3102 1-216-809-11 RES-CHIP 100 5% 1/16W R3180 1-218-673-11 METAL CHIP 160 0.50% 1/16W R3103 1-216-837-11 RES-CHIP 22K 5% 1/16W R3181 1-218-673-11 METAL CHIP 160 0.50% 1/16W R3104 1-216-809-11 RES-CHIP 100 5% 1/16W R3182 1-218-673-11 METAL CHIP 160 0.50% 1/16W R3105 1-216-809-11 RES-CHIP 100 5% 1/16W R3182 1-218-673-11 METAL CHIP 160 0.50% 1/16W R3105 1-216-809-11 RES-CHIP 100 5% 1/16W R3184 1-216-809-11 RES-CHIP 100 5% 1/16W R3184 1-216-809-11 RES-CHIP 100 5% 1/16W R3185 1-216-809-11 RES-CHIP 100 5% 1/16W R3185 1-216-809-11 RES-CHIP 100 5% 1/16W R3185 1-218-674-11 METAL CHIP 180 0.50% 1/16W R3122 1-216-809-11 RES-CHIP 100 5% 1/16W R3186 1-218-674-11 METAL CHIP 180 0.50% 1/16W R3122 1-216-809-11 RES-CHIP 1.5K 0.50% 1/16W R3190 1-218-694-11 METAL CHIP 1.2K 0.50% 1/16W R3124 1-218-696-11 METAL CHIP 1.5K 0.50% 1/16W R3190 1-216-825-11 RES-CHIP 2.2K 5% 1/16W R3125 1-216-823-11 RES-CHIP 1.5K 0.50% 1/16W R3190 1-216-825-11 RES-CHIP 2.70 5% 1/16W R3126 1-216-823-11 RES-CHIP 1.5K 5% 1/16W R3191 1-218-698-11 METAL CHIP 1.8K 0.50% 1/16W R3127 1-216-829-11 RES-CHIP 1.5K 5% 1/16W R3193 1-218-698-11 METAL CHIP 1.8K 0.50% 1/16W R3127 1-216-829-11 RES-CHIP 4.7K 5% 1/16W R3194 1-216-825-11 RES-CHIP 2.2K 5% 1/16W R3128 1-216-829-11 RES-CHIP 4.7K 5% 1/16W R3194 1-216-825-11 RES-CHIP 2.2K 5% 1/16W R3128 1-216-829-11 RES-CHIP 4.7K 5% 1/16W R3194 1-216-825-11 RES-CHIP 2.2K 5% 1/16W R3128 1-216-829-11 RES-CHIP 4.7K 5% 1/16W R3194 1-216-825-11 RES-CHIP 2.2K 5% 1/16W R3128 1-216-829-11 RES-CHIP 4.7K 5% 1/16W R3194	R3100	1-216-809-11	RES-CHIP	100	5%	1/16W							
R3102 1-216-809-11 RES-CHIP 100 5% 1/16W R3180 1-218-673-11 METAL CHIP 160 0.50% 1/16W R3181 1-218-673-11 METAL CHIP 160 0.50% 1/16W R3181 1-218-673-11 METAL CHIP 160 0.50% 1/16W R3181 1-218-673-11 METAL CHIP 160 0.50% 1/16W R3182 1-218-693-11 RES-CHIP 100 5% 1/16W R3183 1-218-699-11 RES-CHIP 100 5% 1/16W R3183 1-218-699-11 RES-CHIP 100 5% 1/16W R3185 1-216-809-11 RES-CHIP 100 5% 1/16W R3185 1-218-694-11 METAL CHIP 180 0.50% 1/16W R3181 1-218-694-11 METAL CHIP 180 0.50% 1/16W R3182 1-218-694-11 METAL CHIP 180 0.50% 1/16W R3183 1-218-694-11 METAL CHIP 180 0.50% 1/16W R3193 1-218-694-11 METAL CHIP 1.2K 0.50% 1/16W R3192 1-216-825-11 RES-CHIP 1.2K 0.50% 1/16W R3193 1-218-698-11 METAL CHIP 1.2K 0.50% 1/16W R3193 1-218-698-11 MET								R3165	1-216-861-11	RES-CHIP	2.2M	5%	1/16W
R3103 1-216-837-11 RES-CHIP 22K 5% 1/16W R3181 1-218-673-11 METAL CHIP 160 0.50% 1/16W R3105 1-216-809-11 RES-CHIP 100 5% 1/16W R3182 1-218-673-11 METAL CHIP 160 0.50% 1/16W R3182 1-218-673-11 METAL CHIP 160 0.50% 1/16W R3183 1-216-809-11 RES-CHIP 100 5% 1/16W R3183 1-216-809-11 RES-CHIP 100 5% 1/16W R3184 1-216-809-11 RES-CHIP 100 5% 1/16W R3185 1-216-809-11 RES-CHIP 100 5% 1/16W R3185 1-216-809-11 RES-CHIP 100 5% 1/16W R3186 1-218-674-11 METAL CHIP 180 0.50% 1/16W R3182 1-218-694-11 RES-CHIP 100 5% 1/16W R3187 1-218-674-11 METAL CHIP 180 0.50% 1/16W R3123 1-218-696-11 METAL CHIP 1.5K 0.50% 1/16W R3190 1-216-825-11 RES-CHIP 2.2K 5% 1/16W R3192 1-216-823-11 RES-CHIP 1.5K 0.50% 1/16W R3192 1-216-809-11 RES-CHIP 1.5K 0.50% 1/16W R3192 1-216-814-11 RES-CHIP 1.8K 0.50% 1/16W R3127 1-216-829-11 RES-CHIP 4.7K 5% 1/16W R3193 1-218-698-11 METAL CHIP 1.8K 0.50% 1/16W R3128 1-216-829-11 RES-CHIP 4.7K 5% 1/16W R3194 1-216-825-11 RES-CHIP 2.2K 5% 1/16W R3128 1-216-829-11 RES-CHIP 4.7K 5% 1/16W R3194 1-216-825-11 RES-CHIP 2.2K 5% 1/16W R3128 1-216-829-11 RES-CHIP 4.7K 5% 1/16W R3194 1-216-825-11 RES-CHIP 2.2K 5% 1/16W R3128 1-216-829-11 RES-CHIP 4.7K 5% 1/16W R3194 1-216-825-11 RES-CHIP 2.2K 5% 1/16W R3128 1-216-829-11 RES-CHIP 4.7K 5% 1/16W R3194 1-216-825-11 RES-CHIP 2.2K 5% 1/16W R3128 1-216-829-11 RES-CHIP 4.7K 5% 1/16W R3194 1-216-825-11 RES-CHIP 2.2K 5% 1/16W R3128 1-216-829-11 RES-CHIP 4.7K 5% 1/16W R3194 1-216-825-11 RES-CHIP 2.2K 5% 1/16W R3128 1-216-829-11 RES-CHIP 4.7K 5% 1/16W R3194 1-216-825-11 RES-CHIP 2.2K 5% 1/16W R3128 1-216-825-11 RES-CHIP 4.7K 5% 1/16W R3194 1-216-8	R3101	1-216-809-11	RES-CHIP	100	5%	1/16W		R3166	1-216-861-11	RES-CHIP	2.2M	5%	1/16W
R3104 1-216-809-11 RES-CHIP 100 5% 1/16W R3105 1-216-809-11 RES-CHIP 100 5% 1/16W R3106 1-216-837-11 RES-CHIP 22K 5% 1/16W R3107 1-216-864-11 SHORT R3185 1-216-809-11 RES-CHIP 100 5% 1/16W R3108 1-216-817-11 RES-CHIP 470 5% 1/16W R3121 1-216-809-11 RES-CHIP 100 5% 1/16W R3122 1-216-809-11 RES-CHIP 100 5% 1/16W R3123 1-216-809-11 RES-CHIP 100 5% 1/16W R3124 1-216-809-11 RES-CHIP 100 5% 1/16W R3125 1-216-809-11 RES-CHIP 100 5% 1/16W R3126 1-218-696-11 METAL CHIP 1.5K 0.50% 1/16W R3126 1-216-823-11 RES-CHIP 1.5K 5% 1/16W R3127 1-216-829-11 RES-CHIP 1.5K 5% 1/16W R3128 1-216-829-11 RES-CHIP 1.5K 5% 1/16W R3127 1-216-829-11 RES-CHIP 1.5K 5% 1/16W R3128 1-216-829-11 RES-CHIP 4.7K 5% 1/16W R3128 1-216-825-11 RES-CHIP 2.2K 5% 1/16W R3128 1-216-829-11 RES-CHIP 4.7K 5% 1/16W R3128 1-216-825-11 RES-CHIP 2.2K 5% 1/16W R3128 1-216-829-11 RES-CHIP 4.7K 5% 1/16W R3194 1-216-825-11 RES-CHIP 2.2K 5% 1/16W R3194 1-216-825-11 RES-CHIP 2.2K 5% 1/16W R3194 1-216-825-11 RES-CHIP 2.2K 5% 1/16W R3195 1-216-825-11 RES-CHIP 1.8K 0.50% 1/16W R3127 1-216-829-11 RES-CHIP 4.7K 5% 1/16W R3128 1-216-825-11 RES-CHIP 2.2K 5% 1/16W R3128 1-216-829-11 RES-CHIP 4.7K 5% 1/16W R3194 1-216-825-11 RES-CHIP 2.2K 5% 1/16W	R3102	1-216-809-11	RES-CHIP	100	5%	1/16W		R3180	1-218-673-11	METAL CHIP	160	0.50%	1/16W
R3105 1-216-809-11 RES-CHIP 100 5% 1/16W R3106 1-216-837-11 RES-CHIP 22K 5% 1/16W R3107 1-216-864-11 SHORT R3183 1-216-809-11 RES-CHIP 100 5% 1/16W R3108 1-216-817-11 RES-CHIP 470 5% 1/16W R3112 1-216-809-11 RES-CHIP 100 5% 1/16W R3121 1-216-809-11 RES-CHIP 100 5% 1/16W R3122 1-216-809-11 RES-CHIP 100 5% 1/16W R3123 1-216-809-11 RES-CHIP 100 5% 1/16W R3124 1-218-696-11 METAL CHIP 1.5K 0.50% 1/16W R3125 1-218-696-11 METAL CHIP 1.5K 0.50% 1/16W R3126 1-218-632-11 RES-CHIP 1.5K 5% 1/16W R3127 1-216-823-11 RES-CHIP 1.5K 5% 1/16W R3128 1-216-829-11 RES-CHIP 1.5K 5% 1/16W R3129 1-216-829-11 RES-CHIP 1.5K 5% 1/16W R3120 1-216-829-11 RES-CHIP 1.5K 5% 1/16W R3121 1-218-698-11 METAL CHIP 1.5K 5% 1/16W R3122 1-216-823-11 RES-CHIP 1.5K 5% 1/16W R3123 1-216-823-11 RES-CHIP 1.5K 5% 1/16W R3124 1-218-698-11 METAL CHIP 1.5K 5% 1/16W R3125 1-216-823-11 RES-CHIP 1.5K 5% 1/16W R3126 1-216-829-11 RES-CHIP 1.5K 5% 1/16W R3127 1-216-829-11 RES-CHIP 1.5K 5% 1/16W R3128 1-216-829-11 RES-CHIP 4.7K 5% 1/16W R3128 1-216-825-11 RES-CHIP 2.2K 5% 1/16W R3128 1-216-829-11 RES-CHIP 4.7K 5% 1/16W R3128 1-216-825-11 RES-CHIP 2.2K 5% 1/16W R3128 1-216-829-11 RES-CHIP 4.7K 5% 1/16W	R3103	1-216-837-11	RES-CHIP	22K	5%	1/16W		R3181	1-218-673-11	METAL CHIP	160	0.50%	1/16W
R3105 1-216-809-11 RES-CHIP 100 5% 1/16W R3106 1-216-837-11 RES-CHIP 22K 5% 1/16W R3107 1-216-864-11 SHORT R3183 1-216-809-11 RES-CHIP 100 5% 1/16W R3108 1-216-817-11 RES-CHIP 470 5% 1/16W R3112 1-216-809-11 RES-CHIP 100 5% 1/16W R3121 1-216-809-11 RES-CHIP 100 5% 1/16W R3122 1-216-809-11 RES-CHIP 100 5% 1/16W R3123 1-216-809-11 RES-CHIP 100 5% 1/16W R3124 1-218-696-11 METAL CHIP 1.5K 0.50% 1/16W R3125 1-218-696-11 METAL CHIP 1.5K 0.50% 1/16W R3126 1-218-632-11 RES-CHIP 1.5K 5% 1/16W R3127 1-216-823-11 RES-CHIP 1.5K 5% 1/16W R3128 1-216-829-11 RES-CHIP 1.5K 5% 1/16W R3129 1-216-829-11 RES-CHIP 1.5K 5% 1/16W R3120 1-216-829-11 RES-CHIP 1.5K 5% 1/16W R3121 1-218-698-11 METAL CHIP 1.5K 5% 1/16W R3122 1-216-823-11 RES-CHIP 1.5K 5% 1/16W R3123 1-216-823-11 RES-CHIP 1.5K 5% 1/16W R3124 1-218-698-11 METAL CHIP 1.5K 5% 1/16W R3125 1-216-823-11 RES-CHIP 1.5K 5% 1/16W R3126 1-216-829-11 RES-CHIP 1.5K 5% 1/16W R3127 1-216-829-11 RES-CHIP 1.5K 5% 1/16W R3128 1-216-829-11 RES-CHIP 4.7K 5% 1/16W R3128 1-216-825-11 RES-CHIP 2.2K 5% 1/16W R3128 1-216-829-11 RES-CHIP 4.7K 5% 1/16W R3128 1-216-825-11 RES-CHIP 2.2K 5% 1/16W R3128 1-216-829-11 RES-CHIP 4.7K 5% 1/16W	R3104	1-216-809-11		100	5%				1-218-673-11		160		
R3106 1-216-837-11 RES-CHIP 22K 5% 1/16W R3183 1-216-809-11 RES-CHIP 100 5% 1/16W R3107 1-216-864-11 SHORT R3108 1-216-809-11 RES-CHIP 470 5% 1/16W R3185 1-216-809-11 RES-CHIP 100 5% 1/16W R3121 1-216-809-11 RES-CHIP 100 5% 1/16W R3186 1-218-674-11 METAL CHIP 180 0.50% 1/16W R3122 1-216-809-11 RES-CHIP 100 5% 1/16W R3188 1-218-674-11 METAL CHIP 180 0.50% 1/16W R3123 1-218-696-11 METAL CHIP 1.5K 0.50% 1/16W R3188 1-218-674-11 METAL CHIP 180 0.50% 1/16W R3124 1-218-696-11 METAL CHIP 1.5K 0.50% 1/16W R3190 1-216-825-11 RES-CHIP 2.2K 5% 1/16W R3125 1-216-823-11 RES-CHIP 1.5K 5% 1/16W R3191 1-218-694-11 METAL CHIP 1.2K 0.50% 1/16W R3126 1-216-823-11 RES-CHIP 1.5K 5% 1/16W R3193 1-218-698-11 METAL CHIP 1.8K 0.50% 1/16W R3127 1-216-829-11 RES-CHIP 1.5K 5% 1/16W R3193 1-218-698-11 METAL CHIP 1.8K 0.50% 1/16W R3127 1-216-829-11 RES-CHIP 4.7K 5% 1/16W R3194 1-216-825-11 RES-CHIP 2.2K 5% 1/16W R3128 1-216-829-11 RES-CHIP 4.7K 5% 1/16W R3194 1-216-825-11 RES-CHIP 2.2K 5% 1/16W R3128 1-216-829-11 RES-CHIP 4.7K 5% 1/16W R3194 1-216-825-11 RES-CHIP 2.2K 5% 1/16W R3128 1-216-829-11 RES-CHIP 4.7K 5% 1/16W R3194 1-216-825-11 RES-CHIP 2.2K 5% 1/16W R3128 1-216-829-11 RES-CHIP 4.7K 5% 1/16W R3194 1-216-825-11 RES-CHIP 2.2K 5% 1/16W R3128 1-216-829-11 RES-CHIP 4.7K 5% 1/16W R3194 1-216-825-11 RES-CHIP 2.2K 5% 1/16W													
R3106 1-216-837-11 RES-CHIP 22K 5% 1/16W R3184 1-216-809-11 RES-CHIP 100 5% 1/16W R3107 1-216-864-11 SHORT R3108 1-216-817-11 RES-CHIP 470 5% 1/16W R3185 1-218-674-11 METAL CHIP 180 0.50% 1/16W R3121 1-216-809-11 RES-CHIP 100 5% 1/16W R3122 1-216-809-11 RES-CHIP 100 5% 1/16W R3122 1-216-809-11 RES-CHIP 100 5% 1/16W R3187 1-218-674-11 METAL CHIP 180 0.50% 1/16W R3123 1-218-696-11 METAL CHIP 1.5K 0.50% 1/16W R3190 1-216-825-11 RES-CHIP 2.2K 5% 1/16W R3125 1-216-823-11 RES-CHIP 1.5K 0.50% 1/16W R3191 1-218-694-11 METAL CHIP 1.2K 0.50% 1/16W R3125 1-216-823-11 RES-CHIP 1.5K 5% 1/16W R3192 1-216-814-11 RES-CHIP 270 5% 1/16W R3126 1-216-823-11 RES-CHIP 1.5K 5% 1/16W R3193 1-218-698-11 METAL CHIP 1.8K 0.50% 1/16W R3127 1-216-829-11 RES-CHIP 4.7K 5% 1/16W R3194 1-216-825-11 RES-CHIP 2.2K 5% 1/16W R3128 1-216-829-11 RES-CHIP 4.7K 5% 1/16W R3194 1-216-825-11 RES-CHIP 2.2K 5% 1/16W R3128 1-216-829-11 RES-CHIP 4.7K 5% 1/16W R3194 1-216-825-11 RES-CHIP 2.2K 5% 1/16W R3128 1-216-829-11 RES-CHIP 4.7K 5% 1/16W R3194 1-216-825-11 RES-CHIP 2.2K 5% 1/16W R3128 1-216-829-11 RES-CHIP 4.7K 5% 1/16W R3194 1-216-825-11 RES-CHIP 2.2K 5% 1/16W R3128 1-216-829-11 RES-CHIP 4.7K 5% 1/16W R3194 1-216-825-11 RES-CHIP 2.2K 5% 1/16W	110100	1210 000 11	1120 01111	100	0 70	1,1011		R3183	1_216_809_11	RES-CHIP	100	5%	1/16\//
R3107 1-216-864-11 SHORT R3108 1-216-817-11 RES-CHIP 470 5% 1/16W R3121 1-216-809-11 RES-CHIP 100 5% 1/16W R3122 1-216-809-11 RES-CHIP 100 5% 1/16W R3123 1-218-696-11 METAL CHIP 1.5K 0.50% 1/16W R3124 1-218-696-11 METAL CHIP 1.5K 0.50% 1/16W R3125 1-216-823-11 RES-CHIP 1.5K 0.50% 1/16W R3126 1-216-823-11 RES-CHIP 1.5K 5% 1/16W R3127 1-216-829-11 RES-CHIP 1.5K 5% 1/16W R3128 1-218-698-11 METAL CHIP 1.5K 5% 1/16W R3129 1-216-823-11 RES-CHIP 1.5K 5% 1/16W R3120 R3121 RES-CHIP 1.5K 5% 1/16W R3121 RES-CHIP 1.5K 5% 1/16W R3122 R3123 RES-CHIP 1.5K 5% 1/16W R3124 R3125 RES-CHIP 1.5K 5% 1/16W R3125 R3126 RES-CHIP 1.5K 5% 1/16W R3127 R3128 1-216-829-11 RES-CHIP 4.7K 5% 1/16W R3128 1-216-829-11 RES-CHIP 4.7K 5% 1/16W R3129 R3129 R3129 RES-CHIP 2.2K 5% 1/16W R3120	D3106	1_216_837_11	DEC CHID	22K	50/	1/16\\\							
R3108 1-216-817-11 RES-CHIP 470 5% 1/16W R3121 1-216-809-11 RES-CHIP 100 5% 1/16W R3122 1-216-809-11 RES-CHIP 100 5% 1/16W R3123 1-218-696-11 METAL CHIP 1.5K 0.50% 1/16W R3124 1-218-696-11 METAL CHIP 1.5K 0.50% 1/16W R3125 1-216-823-11 RES-CHIP 1.5K 5% 1/16W R3126 1-216-823-11 RES-CHIP 1.5K 5% 1/16W R3127 1-216-829-11 RES-CHIP 4.7K 5% 1/16W R3128 1-218-698-11 RES-CHIP 2.2K 5% 1/16W R3129 1-216-825-11 RES-CHIP 1.5K 0.50% 1/16W R3120 R3121 RES-CHIP 1.5K 5% 1/16W R3121 RES-CHIP 1.5K 5% 1/16W R3122 R3123 RES-CHIP 1.5K 5% 1/16W R3124 R3125 RES-CHIP 1.5K 5% 1/16W R3125 R3126 R3127 RES-CHIP 1.5K 5% 1/16W R3127 R3128 1-216-829-11 RES-CHIP 4.7K 5% 1/16W R3128 R3128 1-216-829-11 RES-CHIP 4.7K 5% 1/16W R3129 R				2211	J /0	1/1000							
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R3122 1-216-809-11 RES-CHIP 100 5% 1/16W R3123 1-218-696-11 METAL CHIP 1.5K 0.50% 1/16W R3124 1-218-696-11 METAL CHIP 1.5K 0.50% 1/16W R3125 1-216-823-11 RES-CHIP 1.5K 0.50% 1/16W R3126 1-216-823-11 RES-CHIP 1.5K 5% 1/16W R3127 1-216-829-11 RES-CHIP 4.7K 5% 1/16W R3128 1-216-829-11 RES-CHIP 4.7K 5% 1/16W R3128 1-216-829-11 RES-CHIP 4.7K 5% 1/16W R3129 1-216-825-11 RES-CHIP 2.2K 5% 1/16W R3120 R3121 RES-CHIP 1.5K 5% 1/16W R3122 R3123 1-216-829-11 RES-CHIP 1.5K 5% 1/16W R3124 R3125 R3126 R3													
R3123 1-218-696-11 METAL CHIP 1.5K 0.50% 1/16W R3190 1-216-825-11 RES-CHIP 2.2K 5% 1/16W R3192 1-216-823-11 RES-CHIP 1.5K 0.50% 1/16W R3193 1-218-694-11 METAL CHIP 1.2K 0.50% 1/16W R3192 1-216-814-11 RES-CHIP 2.70 5% 1/16W R3192 1-216-823-11 RES-CHIP 2.70 5% 1/16W R3192 1-216-823-11 RES-CHIP 1.5K 0.50% 1/16W R3193 1-218-698-11 METAL CHIP 1.8K 0.50% 1/16W R3193 1-218-698-11 METAL CHIP 1.8K 0.50% 1/16W R3193 1-218-698-11 RES-CHIP 1.8K 0.50% 1/16W R3193 1-218-698-11 RES-CHIP 1.8K 0.50% 1/16W R3193 1-218-698-11 RES-CHIP 1.8K 0.50% 1/16W R3193 1-216-825-11 RES-CHIP 1.8K 0.50% 1/16W R3193 1-216-825-11 RES-CHIP 1.9K 0.50% 1/16W 1/16W R3193 1-216-825-11 RES-CHIP 1.9K 0.50% 1/16W 1								R3187	1-218-674-11	METAL CHIP	180	0.50%	1/1677
R3123 1-218-696-11 METAL CHIP 1.5K 0.50% 1/16W R3190 1-216-825-11 RES-CHIP 2.2K 5% 1/16W R3124 1-218-696-11 METAL CHIP 1.5K 0.50% 1/16W R3191 1-218-694-11 METAL CHIP 1.2K 0.50% 1/16W R3192 1-216-823-11 RES-CHIP 270 5% 1/16W R3192 1-216-823-11 RES-CHIP 270 5% 1/16W R3192 1-216-823-11 RES-CHIP 270 5% 1/16W R3192 1-216-829-11 METAL CHIP 1.8K 0.50% 1/16W R3192 1-216-829-11 METAL CHIP 1.8K 0.50% 1/16W R3192 1-216-829-11 RES-CHIP 2.2K 5% 1/16W R3193 1-218-698-11 METAL CHIP 1.8K 0.50% 1/16W R3193 1-218-698-11 RES-CHIP 2.2K 5% 1/16W R3193 1-216-825-11 RES-CHIP 2.2K 5% 1/16W	R3122	1-216-809-11	RES-CHIP	100	5%	1/16W							
R3124 1-218-696-11 METAL CHIP 1.5K 0.50% 1/16W R3191 1-218-694-11 METAL CHIP 1.2K 0.50% 1/16W R3125 1-216-823-11 RES-CHIP 1.5K 5% 1/16W R3192 1-216-814-11 RES-CHIP 270 5% 1/16W R3126 1-216-823-11 RES-CHIP 1.5K 5% 1/16W R3193 1-218-698-11 METAL CHIP 1.2K 0.50% 1/16W R3192 1-216-814-11 RES-CHIP 270 5% 1/16W R3127 1-216-829-11 RES-CHIP 4.7K 5% 1/16W R3193 1-218-698-11 METAL CHIP 1.2K 0.50% 1/16W R3193 1-218-698-11 METAL CHIP 1.2K 0.50% 1/16W R3193 1-218-698-11 RES-CHIP 2.2K 5% 1/16W R3193 1-216-825-11 RES-CHIP 2.2K 5% 1/16W													
R3125 1-216-823-11 RES-CHIP 1.5K 5% 1/16W R3192 1-216-814-11 RES-CHIP 270 5% 1/16W R3126 1-216-823-11 RES-CHIP 1.5K 5% 1/16W R3193 1-218-698-11 METAL CHIP 1.8K 0.50% 1/16W R3127 1-216-829-11 RES-CHIP 4.7K 5% 1/16W R3193 1-216-825-11 RES-CHIP 2.2K 5% 1/16W	R3123	1-218-696-11	METAL CHIP	1.5K	0.50%	1/16W		R3190	1-216-825-11	RES-CHIP	2.2K	5%	1/16W
R3125 1-216-823-11 RES-CHIP 1.5K 5% 1/16W R3192 1-216-814-11 RES-CHIP 270 5% 1/16W R3126 1-216-823-11 RES-CHIP 1.5K 5% 1/16W R3193 1-218-698-11 METAL CHIP 1.8K 0.50% 1/16W R3127 1-216-829-11 RES-CHIP 4.7K 5% 1/16W R3193 1-216-825-11 RES-CHIP 2.2K 5% 1/16W	R3124	1-218-696-11	METAL CHIP	1.5K	0.50%	1/16W		R3191	1-218-694-11	METAL CHIP	1.2K	0.50%	1/16W
R3126 1-216-823-11 RES-CHIP 1.5K 5% 1/16W R3193 1-218-698-11 METAL CHIP 1.8K 0.50% 1/16W R3127 1-216-829-11 RES-CHIP 4.7K 5% 1/16W R3193 1-216-825-11 RES-CHIP 2.2K 5% 1/16W			RES-CHIP		5%	1/16W						5%	1/16W
R3127 1-216-829-11 RES-CHIP 4.7K 5% 1/16W R3128 1-216-829-11 RES-CHIP 4.7K 5% 1/16W R3194 1-216-825-11 RES-CHIP 2.2K 5% 1/16W													
R3128 1-216-829-11 RES-CHIP 4.7K 5% 1/16W R3194 1-216-825-11 RES-CHIP 2.2K 5% 1/16W										*****	.=	/ 0	
								R3194	1-216-825-11	RES-CHIP	2 2K	5%	1/16W
1.51.25 1.210.000 11 11.20 01111 1011 0/0 1/1011 1.011 1/1010 1.210-010-11 11.20-01111 000 0/0 1/1011													
	110120	. 210 000 11	. LO OIM	1011	U /U	77 1077	ı	110100	. 210 010 11	ALO OTHI	000	U /U	1, 1011



REF. NO.	PART NO.	DESCRIPTION	VALU	ES			REF. NO.	PART NO.	DESCRIPTION	VALUE	ES .	
R3196	1-216-833-11	RES-CHIP	10K	5%	1/16W		R3257	1-216-809-11	RES-CHIP	100	5%	1/16W
R3197	1-216-825-11	RES-CHIP	2.2K	5%	1/16W		R3258	1-208-755-11	METAL CHIP	75	0.50%	
R3198	1-216-821-11	RES-CHIP	1K	5%	1/16W		R3259	1-216-853-11	RES-CHIP	470K	5%	1/16W
R3201	1-216-821-11	RES-CHIP	1K	5%	1/16W		R3260	1-216-853-11	RES-CHIP	470K	5%	1/16W
							R3261	1-216-827-11	RES-CHIP	3.3K	5%	1/16W
R3202	1-216-809-11	RES-CHIP	100	5%	1/16W		N3201	1-210-021-11	NES-CHIF	J.JN	J /0	1/1000
R3203	1-216-809-11	RES-CHIP	100	5%	1/16W		Danca	4 040 007 44	DEC CUID	2 21/	E0/	4/40\4
D0004	4 040 004 44	DE0 0111D	417	5 0/	4/40/4/		R3262	1-216-827-11	RES-CHIP	3.3K	5%	1/16W
R3204	1-216-821-11	RES-CHIP	1K	5%	1/16W		R3263	1-216-821-11	RES-CHIP	1K	5%	1/16W
R3205	1-216-809-11	RES-CHIP	100	5%	1/16W		R3264	1-216-821-11	RES-CHIP	1K	5%	1/16W
R3207	1-216-821-11	RES-CHIP	1K	5%	1/16W		R3265	1-216-857-11	RES-CHIP	1M	5%	1/16W
R3208	1-216-825-11	RES-CHIP	2.2K	5%	1/16W		R3266	1-216-825-11	RES-CHIP	2.2K	5%	1/16W
R3209	1-216-809-11	RES-CHIP	100	5%	1/16W							
							R3267	1-216-825-11	RES-CHIP	2.2K	5%	1/16W
R3210	1-216-825-11	RES-CHIP	2.2K	5%	1/16W		R3268	1-216-837-11	RES-CHIP	22K	5%	1/16W
R3211	1-216-825-11	RES-CHIP	2.2K	5%	1/16W		R3269	1-216-809-11	RES-CHIP	100	5%	1/16W
R3212	1-216-825-11	RES-CHIP	2.2K	5%	1/16W		R3270	1-249-382-11	CARBON	1.2	5%	1/4W
R3213	1-216-809-11	RES-CHIP	100	5%	1/16W		R3272	1-216-841-11	RES-CHIP	47K	5%	1/16W
R3215	1-216-821-11	RES-CHIP	1K	5%	1/16W							
			***	0,0	.,		R3273	1-216-819-11	RES-CHIP	680	5%	1/16W
R3216	1-216-821-11	RES-CHIP	1K	5%	1/16W		R3275	1-216-819-11	RES-CHIP	680	5%	1/16W
R3217	1-216-809-11	RES-CHIP	100	5%	1/16W		R3276	1-216-819-11	RES-CHIP	680	5%	1/16W
R3218	1-216-809-11	RES-CHIP	100	5%	1/16W		R3277	1-216-819-11	RES-CHIP	680	5%	1/16W
			2.2K	5% 5%	1/16W		R3279	1-216-821-11	RES-CHIP	1K	5%	1/16W
R3219	1-216-825-11	RES-CHIP					113213	1-2 10-02 1-11	NEO-OHIII	IIX	J /0	1/1000
R3220	1-216-809-11	RES-CHIP	100	5%	1/16W		D2200	1 200 755 11	METAL CHID	75	0.500/	1/10W
D0004	4 040 004 44	DE0 0111D	417	5 0/	4/40/4/		R3280	1-208-755-11	METAL CHIP			
R3221	1-216-821-11	RES-CHIP	1K	5%	1/16W		R3281	1-208-755-11	METAL CHIP	75 75		1/10W
R3222	1-216-825-11	RES-CHIP	2.2K	5%	1/16W		R3282	1-208-755-11	METAL CHIP	75	0.50%	1/10W
R3223	1-216-809-11	RES-CHIP	100	5%	1/16W		R3284	1-216-864-11	SHORT			
R3224	1-216-815-11	RES-CHIP	330	5%	1/16W		R3285	1-216-817-11	RES-CHIP	470	5%	1/16W
R3226	1-216-809-11	RES-CHIP	100	5%	1/16W		R3286	1-218-716-11	METAL CHIP	10K	0.50%	1/16W
R3227	1-216-825-11	RES-CHIP	2.2K	5%	1/16W		R3287	1-216-817-11	RES-CHIP	470	5%	1/16W
R3228	1-216-825-11	RES-CHIP	2.2K	5%	1/16W		R3288	1-218-686-11	METAL CHIP	560	0.50%	1/16W
R3229	1-216-809-11	RES-CHIP	100	5%	1/16W		R3289	1-216-825-11	RES-CHIP	2.2K	5%	1/16W
R3230	1-216-809-11	RES-CHIP	100	5%	1/16W		R3290	1-216-809-11	RES-CHIP	100	5%	1/16W
R3231	1-216-825-11	RES-CHIP	2.2K	5%	1/16W		R3291	1-216-842-11	RES-CHIP	56K	5%	1/16W
							R3292	1-216-857-11	RES-CHIP	1M	5%	1/16W
R3232	1-216-809-11	RES-CHIP	100	5%	1/16W							
R3233	1-216-809-11	RES-CHIP	100	5%	1/16W		R3293	1-216-803-11	RES-CHIP	33	5%	1/16W
R3234	1-216-825-11	RES-CHIP	2.2K	5%	1/16W		R3294	1-216-833-11	RES-CHIP	10K	5%	1/16W
R3235	1-216-809-11	RES-CHIP	100	5%	1/16W		R3296	1-216-845-11	RES-CHIP	100K	5%	1/16W
R3236	1-216-809-11	RES-CHIP	100	5%	1/16W		R3297	1-216-841-11	RES-CHIP	47K	5%	1/16W
K3230	1-210-009-11	KES-CHIP	100	3%	1/1000		R3298	1-208-755-11	METAL CHIP	75		1/10W
D2040	4 040 005 44	DEC CUID	0.01/	E0/	4/40/4/		N3230	1-200-733-11	METAL OTHE	13	0.30 /0	1/1000
R3240	1-216-825-11	RES-CHIP	2.2K	5%	1/16W		D2200	1 200 755 11	METAL CHID	75	0.500/	1/10\\\
R3241	1-216-825-11	RES-CHIP	2.2K	5%	1/16W		R3299	1-208-755-11	METAL CHIP	75 75		1/10W
R3242	1-216-821-11	RES-CHIP	1K	5%	1/16W		R3300	1-208-755-11	METAL CHIP	75		1/10W
R3244	1-216-821-11	RES-CHIP	1K	5%	1/16W		R3301	1-216-809-11	RES-CHIP	100	5%	1/16W
R3246	1-216-809-11	RES-CHIP	100	5%	1/16W		R3302	1-218-684-11	METAL CHIP	470		1/16W
							R3303	1-218-712-11	METAL CHIP	6.8K	0.50%	1/16W
R3247	1-216-809-11	RES-CHIP	100	5%	1/16W							
R3248	1-216-809-11	RES-CHIP	100	5%	1/16W		R3304	1-218-692-11	METAL CHIP	1K	0.50%	1/16W
R3249	1-216-809-11	RES-CHIP	100	5%	1/16W		R3305	1-216-809-11	RES-CHIP	100	5%	1/16W
R3250	1-216-809-11	RES-CHIP	100	5%	1/16W		R3306	1-216-809-11	RES-CHIP	100	5%	1/16W
R3254	1-216-809-11	RES-CHIP	100	5%	1/16W		R3307	1-216-864-11	SHORT			
R3255	1-216-809-11	RES-CHIP	100	5%	1/16W		R3308	1-216-864-11	SHORT			
R3256	1-216-809-11	RES-CHIP	100	5%	1/16W		R3309	1-211-987-11	METAL CHIP	56	0.50%	1/16W
1.0200		01111	100	5 /0	., 1011	1						



REF. NO.	PART NO.	DESCRIPTION	VALUE	ES		REF. NO.	PART NO.	DESCRIPTION	VALUE	ES	
R3310	1-211-987-11	METAL CHIP	56	0.50%	1/16W	R3359	1-218-676-11	METAL CHIP	220	0.50%	1/16W
R3311	1-211-987-11	METAL CHIP	56		1/16W	R3360	1-216-827-11	RES-CHIP	3.3K	5%	1/16W
							1-216-825-11			5%	1/16W
R3312	1-211-987-11	METAL CHIP	56		1/16W	R3361		RES-CHIP	2.2K	3%	1/1000
R3313	1-216-835-11	RES-CHIP	15K	5%	1/16W	R3364	1-216-864-11	SHORT			
R3314	1-211-990-11	METAL CHIP	75	0.50%	1/16W	R3366	1-216-864-11	SHORT			
R3315	1-216-835-11	RES-CHIP	15K	5%	1/16W	R3367	1-216-803-11	RES-CHIP	33	5%	1/16W
R3316	1-211-989-11	METAL CHIP	68		1/16W	R3369	1-216-864-11	SHORT			
R3317	1-211-989-11	METAL CHIP	68		1/16W	R3371	1-216-624-11	METAL CHIP	75	0.50%	1/10W
R3318	1-211-990-11	METAL CHIP	75		1/16W	R3372	1-216-624-11	METAL CHIP	75	0.50%	
R3319	1-211-987-11	METAL CHIP	56		1/16W	R3373	1-216-624-11	METAL CHIP	75		1/10W
D0000	4 044 007 44	METAL OLUB	50	0.500/	4 (4 0) 4 (Dagon	1 010 001 11	CHODT			
R3320	1-211-987-11	METAL CHIP	56		1/16W	R3382	1-216-864-11	SHORT	4.017	0.500/	4/4014/
R3321	1-211-987-11	METAL CHIP	56		1/16W	R3401	1-218-694-11	METAL CHIP	1.2K		1/16W
R3322	1-211-987-11	METAL CHIP	56	0.50%	1/16W	R3403	1-218-692-11	METAL CHIP	1K	0.50%	1/16W
R3323	1-216-825-11	RES-CHIP	2.2K	5%	1/16W	R3404	1-216-864-11	SHORT			
R3324	1-216-827-11	RES-CHIP	3.3K	5%	1/16W	R3405	1-216-864-11	SHORT			
R3325	1-216-827-11	RES-CHIP	3.3K	5%	1/16W	R3410	1-216-833-11	RES-CHIP	10K	5%	1/16W
R3326	1-216-825-11	RES-CHIP	2.2K	5%	1/16W	R3421	1-216-295-91	SHORT			
R3327	1-216-835-11	RES-CHIP	15K	5%	1/16W	R3422	1-216-295-91	SHORT			
R3328	1-216-864-11	SHORT	1011	0 /0	1/1011	R3423	1-216-813-11	RES-CHIP	220	5%	1/16W
			220	E0/	1/16/1/	R3429	1-216-823-11	RES-CHIP	1.5K	5%	1/16W
R3329	1-216-815-11	RES-CHIP	330	5%	1/16W	110423	1-210-025-11	NEO-CI III	1.51	J /0	1/1000
R3330	1-216-815-11	RES-CHIP	330	5%	1/16W	R3432	1-216-815-11	RES-CHIP	330	5%	1/16W
R3331	1-216-841-11	RES-CHIP	47K	5%	1/16W	R3434	1-216-809-11	RES-CHIP	100	5%	1/16W
R3332	1-218-272-11	RES-CHIP	5.1K	5%	1/16W	R3445	1-216-864-11	SHORT			
R3333	1-216-864-11	SHORT				R3446	1-216-821-11	RES-CHIP	1K	5%	1/16W
R3334	1-216-809-11	RES-CHIP	100	5%	1/16W	R3447	1-216-819-11	RES-CHIP	680	5%	1/16W
R3335	1-216-833-11	RES-CHIP	10K	5%	1/16W	R3448	1-216-855-11	RES-CHIP	680K	5%	1/16W
R3337	1-216-820-11	RES-CHIP	820	5%	1/16W	R3452	1-216-295-91	SHORT			
R3338	1-216-821-11	RES-CHIP	1K	5%	1/16W	R3454	1-216-825-11	RES-CHIP	2.2K	5%	1/16W
						R3460	1-216-833-11	RES-CHIP	10K	5%	1/16W
R3339	1-216-855-11	RES-CHIP	680K	5%	1/16W			RES-CHIP	10K	5%	1/16W
R3340	1-216-855-11	RES-CHIP	680K	5%	1/16W	R3461	1-216-833-11	KES-CHIP	IUN	3%	1/1000
R3341	1-216-813-11	RES-CHIP	220	5%	1/16W	R3464	1-216-821-11	RES-CHIP	1K	5%	1/16W
R3342	1-220-158-11	RES-CHIP	3.6K	5%	1/16W	R3465	1-216-821-11	RES-CHIP	1K	5%	1/16W
R3343	1-216-809-11	RES-CHIP	100	5%	1/16W	R3467	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R3344	1-216-853-11	RES-CHIP	470K	5%	1/16W	R3470	1-216-809-11	RES-CHIP	100	5%	1/16W
R3345	1-218-704-11	METAL CHIP	3.3K		1/16W	R3471	1-216-821-11	RES-CHIP	1K	5%	1/16W
110040	1-210-704-11	WETAL OTH	0.010	0.0070	1/1000	R3472	1-216-801-11	RES-CHIP	22	5%	1/16W
R3346	1-216-809-11	RES-CHIP	100	5%	1/16W						
R3347	1-216-815-11	RES-CHIP	330	5%	1/16W	R3475	1-216-809-11	RES-CHIP	100	5%	1/16W
R3348	1-216-864-11	SHORT				R3476	1-216-821-11	RES-CHIP	1K	5%	1/16W
R3349	1-218-687-11	METAL CHIP	620	0.50%	1/16W	R3477	1-218-701-11	METAL CHIP	2.4K	0.50%	
R3350	1-216-814-11	RES-CHIP	270	5%	1/16W	R3478	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
110000	1-210-014-11	NEO-OIIII	210	J /0	1/1000	R3483	1-218-701-11	METAL CHIP	2.4K	0.50%	
R3351	1-216-825-11	RES-CHIP	2.2K	5%	1/16W						
R3352	1-216-853-11	RES-CHIP	470K	5%	1/16W	R3484	1-216-821-11	RES-CHIP	1K	5%	1/16W
R3353	1-216-837-11	RES-CHIP	22K	5%	1/16W	R3485	1-216-821-11	RES-CHIP	1K	5%	1/16W
R3354	1-216-813-11	RES-CHIP	220	5%	1/16W	R3486	1-216-801-11	RES-CHIP	22	5%	1/16W
R3355	1-216-821-11	RES-CHIP	1K	5%	1/16W	R3489	1-216-864-11	SHORT			
0000	. 2.0 321 11			- 70	.,	R3490	1-216-864-11	SHORT			
R3356	1-216-864-11	SHORT									
R3357	1-218-676-11	METAL CHIP	220	0.50%	1/16W	R3491	1-216-821-11	RES-CHIP	1K	5%	1/16W
R3358	1-218-676-11	METAL CHIP	220	0.50%	1/16W	R3492	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
						-					



REF. NO.	PART NO.	DESCRIPTION	VALU	ES			REF. NO.	PART NO.	DESCRIPTION	VALUI	ES	
R3493	1-218-701-11	METAL CHIP	2.4K	0.50%	1/16W		R3659	1-216-815-11	RES-CHIP	330	5%	1/16W
R3495	1-216-821-11	RES-CHIP	1K	5%	1/16W		R3660	1-216-815-11	RES-CHIP	330	5%	1/16W
R3496	1-216-801-11	RES-CHIP	22	5%	1/16W		R3661	1-216-809-11	RES-CHIP	100	5%	1/16W
R3497	1-216-829-11	RES-CHIP	4.7K	5%	1/16W		R3662	1-216-837-11	RES-CHIP	22K	5%	1/16W
R3498	1-216-818-11	RES-CHIP	560	5%	1/16W		R3663	1-216-837-11	RES-CHIP	22K	5%	1/16W
R3499	1-216-821-11	RES-CHIP	1K	5%	1/16W		R3664	1-216-841-11	RES-CHIP	47K	5%	1/16W
R3602	1-216-809-11	RES-CHIP	100	5%	1/16W		R3665	1-216-817-11	RES-CHIP	470	5%	1/16W
R3606	1-216-864-11	SHORT					R3666	1-216-809-11	RES-CHIP	100	5%	1/16W
R3609	1-216-821-11	RES-CHIP	1K	5%	1/16W		R3667	1-216-839-11	RES-CHIP	33K	5%	1/16W
R3610	1-216-821-11	RES-CHIP	1K	5%	1/16W		R3668	1-216-797-11	RES-CHIP	10	5%	1/16W
R3611	1-216-833-11	RES-CHIP	10K	5%	1/16W		R3669	1-216-809-11	RES-CHIP	100	5%	1/16W
R3612	1-216-857-11	RES-CHIP	1M	5%	1/16W		R3672	1-216-864-11	SHORT	100	J /0	1/1000
										400	F0/	4/40\4/
R3613	1-216-821-11	RES-CHIP	1K	5%	1/16W		R3673	1-216-809-11	RES-CHIP	100	5%	1/16W
R3614	1-216-813-11	RES-CHIP	220	5%	1/16W		R3674	1-216-813-11	RES-CHIP	220	5%	1/16W
R3615	1-216-809-11	RES-CHIP	100	5%	1/16W		R3675	1-216-813-11	RES-CHIP	220	5%	1/16W
R3616	1-216-805-11	RES-CHIP	47	5%	1/16W		R3676	1-216-809-11	RES-CHIP	100	5%	1/16W
R3617	1-216-805-11	RES-CHIP	47	5%	1/16W		R3677	1-216-809-11	RES-CHIP	100	5%	1/16W
R3618	1-216-817-11	RES-CHIP	470	5%	1/16W		R3678	1-216-809-11	RES-CHIP	100	5%	1/16W
R3619	1-216-809-11	RES-CHIP	100	5%	1/16W		R3679	1-216-809-11	RES-CHIP	100	5%	1/16W
R3620	1-216-813-11	RES-CHIP	220	5%	1/16W		R3680	1-216-833-11	RES-CHIP	10K	5%	1/16W
113020	1-210-010-11	NEO-OI III	220	J /0	1/1000		113000	1-210-000-11	NEO-OTIII	TOIL	J 70	1/1044
R3621	1-216-813-11	RES-CHIP	220	5%	1/16W		R3681	1-216-833-11	RES-CHIP	10K	5%	1/16W
R3622	1-216-813-11	RES-CHIP	220	5%	1/16W		R3682	1-216-837-11	RES-CHIP	22K	5%	1/16W
R3623	1-216-825-11	RES-CHIP	2.2K	5%	1/16W		R3683	1-216-837-11	RES-CHIP	22K	5%	1/16W
R3624	1-216-825-11	RES-CHIP	2.2K	5%	1/16W		R3684	1-216-833-11	RES-CHIP	10K	5%	1/16W
R3625	1-216-825-11	RES-CHIP	2.2K	5%	1/16W		R3685	1-216-833-11	RES-CHIP	10K	5%	1/16W
110020	1-210-020-11	NEO-OI III	2.21	J /0	1/1000		110000	1-210-000-11	NEO-OTIII	TOIL	3 70	1/1044
R3626	1-216-815-11	RES-CHIP	330	5%	1/16W		R3686	1-216-833-11	RES-CHIP	10K	5%	1/16W
R3627	1-216-815-11	RES-CHIP	330	5%	1/16W		R3687	1-216-833-11	RES-CHIP	10K	5%	1/16W
R3628	1-216-815-11	RES-CHIP	330	5%	1/16W		R3688	1-216-833-11	RES-CHIP	10K	5%	1/16W
R3630	1-216-809-11	RES-CHIP	100	5%	1/16W		R3689	1-216-833-11	RES-CHIP	10K	5%	1/16W
R3639	1-216-864-11	SHORT	100	070	1/1011		R3690	1-216-833-11	RES-CHIP	10K	5%	1/16W
D2040	4 040 004 44	DEC CLUD	41/	E0/	4/40\\		D2004	4 040 000 44	DEC CUID	101/	E0/	4.14.0\M
R3640	1-216-821-11	RES-CHIP	1K	5%	1/16W		R3691	1-216-833-11	RES-CHIP	10K	5%	1/16W
R3641	1-216-821-11	RES-CHIP	1K	5%	1/16W		R3692	1-216-833-11	RES-CHIP	10K	5%	1/16W
R3642	1-216-833-11	RES-CHIP	10K	5%	1/16W		R3693	1-216-833-11	RES-CHIP	10K	5%	1/16W
R3644	1-216-857-11	RES-CHIP	1M	5%	1/16W		R3694	1-216-833-11	RES-CHIP	10K	5%	1/16W
R3645	1-216-821-11	RES-CHIP	1K	5%	1/16W		R3695	1-216-833-11	RES-CHIP	10K	5%	1/16W
R3646	1-216-813-11	RES-CHIP	220	5%	1/16W		R3696	1-216-833-11	RES-CHIP	10K	5%	1/16W
R3647	1-216-809-11	RES-CHIP	100	5%	1/16W		R3697	1-216-833-11	RES-CHIP	10K	5%	1/16W
R3648	1-216-805-11	RES-CHIP	47	5%	1/16W		R3698	1-216-845-11	RES-CHIP	100K	5%	1/16W
R3649	1-216-805-11	RES-CHIP	47	5%	1/16W		R3699	1-216-845-11	RES-CHIP	100K	5%	1/16W
R3650		RES-CHIP	470	5%			R3800	1-216-864-11	SHORT	1001	J /0	1/1000
173030	1-216-817-11	NEO-OHIF	410	J /0	1/16W		N3000	1-210-004-11	SHORI			
R3651	1-216-809-11	RES-CHIP	100	5%	1/16W		R3802	1-208-762-11	METAL CHIP	150	0.50%	
R3652	1-216-813-11	RES-CHIP	220	5%	1/16W		R3803	1-208-762-11	METAL CHIP	150	0.50%	
R3653	1-216-813-11	RES-CHIP	220	5%	1/16W		R3804	1-208-762-11	METAL CHIP	150	0.50%	1/10W
R3654	1-216-813-11	RES-CHIP	220	5%	1/16W		R3805	1-208-762-11	METAL CHIP	150		1/10W
R3655	1-216-825-11	RES-CHIP	2.2K	5%	1/16W		R3806	1-218-662-11	METAL CHIP	56		1/16W
Dagge	1 216 025 44	DEC CUID	2 21/	E0/	1/16/1/		D2007	1 200 754 44	METAL CLUB	60	0.500/	1/10/1
R3656	1-216-825-11	RES-CHIP	2.2K	5%	1/16W		R3807	1-208-754-11	METAL CHIP	68 75	0.50%	
R3657	1-216-825-11	RES-CHIP	2.2K	5%	1/16W		R3808	1-208-755-11	METAL CHIP	75 75		1/10W
R3658	1-216-815-11	RES-CHIP	330	5%	1/16W	I	R3809	1-208-755-11	METAL CHIP	75	0.50%	1/10W



REF. NO.	PART NO.	DESCRIPTION	VALUE	S		REF. NO.	PART NO.	DESCRIPTION	VALUES	<u> </u>	
R3810	1-208-758-11	METAL CHIP	100	0.50%	1/10W	R3876	1-208-762-11	METAL CHIP	150	0.50%	1/10W
R3811	1-216-809-11	RES-CHIP	100	5%	1/16W	R3901	1-216-035-00	RES-CHIP	270	5%	1/10W
R3812	1-216-809-11	RES-CHIP	100	5%	1/16W	R3902	1-216-035-00	RES-CHIP	270	5%	1/10W
R3813				5%	1/16W	R3903			270 22K	5%	1/16W
	1-216-809-11	RES-CHIP	100				1-216-837-11	RES-CHIP			
R3814	1-211-969-11	METAL CHIP	10	0.50%	1/16W	R3904	1-216-837-11	RES-CHIP	22K	5%	1/16W
R3815	1-211-973-11	METAL CHIP	15	0.50%	1/16W	R3905	1-216-809-11	RES-CHIP	100	5%	1/16W
R3816	1-211-977-11	METAL CHIP	22	0.50%	1/16W	R3906	1-216-809-11	RES-CHIP	100	5%	1/16W
R3817	1-211-977-11	METAL CHIP	22	0.50%	1/16W	R3907	1-216-809-11	RES-CHIP	100	5%	1/16W
R3820	1-218-684-11	METAL CHIP	470		1/16W	R3908	1-216-809-11	RES-CHIP	100	5%	1/16W
R3821	1-218-684-11	METAL CHIP	470	0.50%		R3909	1-216-809-11	RES-CHIP	100	5%	1/16W
D0000	4 040 004 44	METAL OLUD	470	0.500/	4/40/4/	D0040	4 040 000 44	DEC OUID	400	F0/	4/40/14
R3822	1-218-684-11	METAL CHIP	470		1/16W	R3910	1-216-809-11	RES-CHIP	100	5%	1/16W
R3823	1-216-826-11	RES-CHIP	2.7K	5%	1/16W	R3914	1-216-864-11	SHORT			
R3824	1-216-826-11	RES-CHIP	2.7K	5%	1/16W	R3915	1-211-969-11	METAL CHIP	10		1/16W
R3825	1-216-826-11	RES-CHIP	2.7K	5%	1/16W	R3916	1-211-969-11	METAL CHIP	10		1/16W
R3826	1-216-809-11	RES-CHIP	100	5%	1/16W	R3917	1-211-969-11	METAL CHIP	10	0.50%	1/16W
R3828	1-218-684-11	METAL CHIP	470	0.50%	1/16W						
						R3924	1-208-755-11	METAL CHIP	75		1/10W
R3829	1-218-684-11	METAL CHIP	470	0.50%	1/16W	R3925	1-208-755-11	METAL CHIP	75	0.50%	1/10W
R3830	1-218-684-11	METAL CHIP	470	0.50%	1/16W	R3926	1-208-755-11	METAL CHIP	75	0.50%	1/10W
R3831	1-216-864-11	SHORT				R3933	1-216-864-11	SHORT			
R3832	1-216-864-11	SHORT				R3937	1-216-809-11	RES-CHIP	100	5%	1/16W
R3833	1-216-864-11	SHORT									
						R3940	1-216-864-11	SHORT			
R3840	1-216-807-11	RES-CHIP	68	5%	1/16W	R3942	1-216-864-11	SHORT			
R3843	1-218-694-11	METAL CHIP	1.2K	0.50%	1/16W	R3943	1-216-864-11	SHORT			
R3844	1-218-712-11	METAL CHIP	6.8K	0.50%	1/16W	R3945	1-216-864-11	SHORT			
R3845	1-218-692-11	METAL CHIP	1K	0.50%	1/16W	R3946	1-216-864-11	SHORT			
R3846	1-216-801-11	RES-CHIP	22	5%	1/16W						
						R3953	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R3847	1-216-801-11	RES-CHIP	22	5%	1/16W	R3954	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R3848	1-216-057-00	RES-CHIP	2.2K	5%	1/10W	R3955	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R3849	1-218-675-11	METAL CHIP	200		1/16W	R3956	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R3850	1-218-675-11	METAL CHIP	200		1/16W					0,0	.,
R3851	1-216-809-11	RES-CHIP	100	5%	1/16W	R3957	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
113031	1-210-003-11	NLO-OHII	100	J /0	1/1000	R3958	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
DOGEO	1 010 675 11	METAL CHIP	200	0.500/	1/16/1/						
R3852	1-218-675-11		200	0.50%		R3959	1-208-755-11	METAL CHIP	75 75		1/10W
R3854	1-216-057-00	RES-CHIP	2.2K	5%	1/10W	R3960	1-208-755-11	METAL CHIP	75 	0.50%	
R3857	1-216-809-11	RES-CHIP	100	5%	1/16W	R3961	1-208-755-11	METAL CHIP	75	0.50%	1/10W
R3858 R3862	1-218-704-11 1-216-057-00	METAL CHIP RES-CHIP	3.3K 2.2K	0.50% 5%	1/16W 1/10W		RESISTOR BRI	DGE			
	. 2.0 00, 00			-,0		RB3301	1-234-525-21	RES, CHIP NETWORK	56		
R3863	1-218-700-11	METAL CHIP	2.2K	0.50%	1/16W	RB3302	1-234-525-21	RES, CHIP NETWORK			
R3864	1-216-827-11	RES-CHIP	3.3K	5%	1/16W	RB3303	1-234-525-21	RES, CHIP NETWORK			
R3865	1-216-809-11	RES-CHIP	100	5%	1/16W						
R3866	1-414-234-22	FERRITE	0µH	- / •		RB3304	1-234-525-21	RES, CHIP NETWORK			
R3867	1-414-234-22	FERRITE	0μH			RB3305	1-234-525-21	RES, CHIP NETWORK	56		
			•			RB3306	1-234-525-21	RES, CHIP NETWORK	56		
R3868	1-414-234-22	FERRITE	0μΗ			RB3307	1-234-525-21	RES, CHIP NETWORK			
R3869	1-218-719-11	METAL CHIP	13K	0.50%	1/16W	RB3401	1-234-524-21	RES, CHIP NETWORK			
R3870	1-218-719-11	METAL CHIP	13K		1/16W						
R3871	1-218-719-11	METAL CHIP	13K		1/16W	RB3402	1-234-524-21	RES, CHIP NETWORK			
R3872	1-211-990-11	METAL CHIP	75		1/16W	RB3403	1-234-524-21	RES, CHIP NETWORK	33		
						RB3404	1-234-524-21	RES, CHIP NETWORK	33		
R3873	1-211-990-11	METAL CHIP	75	0.50%	1/16W	RB3405	1-234-524-21	RES, CHIP NETWORK			
R3874	1-211-990-11	METAL CHIP	75	0.50%	1/16W						



REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES	6	
RB3406	1-234-524-21	RES, CHIP NETWORK	33			C011	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
RB3407	1-234-524-21	RES, CHIP NETWORK				C012	1-164-161-11	CERAMIC CHIP	0.0022µF		50V
RB3408	1-234-524-21	RES, CHIP NETWORK				C013	1-164-161-11	CERAMIC CHIP	0.0022µF		50V
RB3409	1-234-524-21	RES, CHIP NETWORK				C014	1-126-960-11	ELECT	0.0022μι 1μF	20%	50V
RB3410	1-234-524-21	RES, CHIP NETWORK				C023	1-164-161-11	CERAMIC CHIP	0.0022µF		50V
KD3410	1-234-324-21	RES, CHIP NETWORK	33						0.0022µF 0.0022µF		
DD0444	4 004 504 04	DEC CHID NETWORK	22			C025	1-164-161-11	CERAMIC CHIP	0.0022μΓ	10%	50V
RB3411	1-234-524-21	RES, CHIP NETWORK				0007	4 404 404 44	OEDAMIO OLIID	0.0000	400/	F0\/
RB3412	1-234-524-21	RES, CHIP NETWORK				C027	1-164-161-11	CERAMIC CHIP	0.0022µF		50V
RB3413	1-233-576-11	RES, CHIP NETWORK				C028	1-126-933-11	ELECT	100µF	20%	16V
RB3414	1-233-576-11	RES, CHIP NETWORK				C030	1-104-665-11	ELECT	100μF	20%	10V
RB3415	1-233-576-11	RES, CHIP NETWORK	100			C032	1-126-933-11	ELECT	100µF	20%	16V
						C035	1-164-161-11	CERAMIC CHIP	0.0022µF	10%	50V
RB3416	1-233-576-11	RES, CHIP NETWORK									
RB3417	1-233-576-11	RES, CHIP NETWORK				C037	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
RB3418	1-233-576-11	RES, CHIP NETWORK				C038	1-126-935-11	ELECT	470µF	20%	16V
RB3419	1-233-576-11	RES, CHIP NETWORK				C039	1-126-964-11	ELECT	10μF	20%	50V
RB3420	1-233-576-11	RES, CHIP NETWORK	100			C041	1-164-161-11	CERAMIC CHIP	0.0022µF	10%	50V
						C048	1-126-964-11	ELECT	10μF	20%	50V
RB3421	1-233-576-11	RES, CHIP NETWORK	100								
RB3422	1-233-576-11	RES, CHIP NETWORK	100			C051	1-107-714-11	ELECT	10μF	20%	16V
RB3423	1-233-576-11	RES, CHIP NETWORK	100			C052	1-107-714-11	ELECT	10μF	20%	16V
RB3424	1-233-576-11	RES, CHIP NETWORK	100			C115	1-163-001-11	CERAMIC CHIP	220pF	10%	50V
RB3425	1-233-576-11	RES, CHIP NETWORK	100			C116	1-104-760-11	CERAMIC CHIP	0.047µF	10%	50V
		•				C117	1-164-346-11	CERAMIC CHIP	1μF		16V
	CRYSTAL								'		
X3001	1-781-282-11	VIBRATOR, CERAMIC				C119	1-163-001-11	CERAMIC CHIP	220pF	10%	50V
X3047	1-567-505-11	OSCILLATOR, CRYSTAI				C120	1-104-760-11	CERAMIC CHIP	0.047µF	10%	50V
X3047 X3089	1-781-945-21	VIBRATOR, CERAMIC	_			C121	1-164-346-11	CERAMIC CHIP	1μF .		16V
		·				C205	1-115-340-11	CERAMIC CHIP	0.22µF	10%	25V
X3110	1-567-505-11	OSCILLATOR, CRYSTAI	L			C210	1-127-760-11	CERAMIC CHIP	4.7µF	10%	6.3V
X3401	1-781-887-21	VIBRATOR, CRYSTAL							r		
X3601	1-767-179-31	VIBRATOR, SERAMIC				C211	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
X3602	1-767-179-31	VIBRATOR, SERAMIC				C212	1-126-933-11	ELECT	100µF	20%	16V
		VIBRATOR, SERAMIC				C213	1-164-161-11	CERAMIC CHIP	0.0022µF		50V
X3603	1-767-989-11	VIDRATUR, CERAINIC				C214	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
						C216	1-126-933-11	ELECT	100µF	20%	16V
lacksquare											
IAI						C217	1-107-823-11	CERAMIC CHIP	0.47µF	10%	16V
						C219	1-164-344-11	CERAMIC CHIP	0.068µF		25V
*	A 4000 ECO A	A COMPLETE DO DOA	DD.			C220	1-107-823-11	CERAMIC CHIP	0.47µF	10%	16V
	A-1299-560-A	A COMPLETE PC BOA	KU			C221	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
*	4 074 040 44	00//ED 04 D4 0/TOD 0	A D T)/DE			C222	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
	4-374-846-11 4-382-854-01	COVER, CAPACITOR, C.				V		02.0	V p.	, ,	
	4-302-004-01	SCREW (M3X8), P, SW	(+)			C224	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
	CAPACITOR					C225	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
						C226	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C001	1-164-161-11	CERAMIC CHIP	0.0022µF 1	10%	50V	C227	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C002	1-104-665-11	ELECT	100µF 2	20%	10V	C229	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C003	1-126-960-11	ELECT		20%	50V	<i>3223</i>	1 101 007 11	JEI W WIND OF HI	υ. τμι	10/0	201
C004	1-126-967-11	ELECT	47µF 2	20%	50V	C230	1-107-823-11	CERAMIC CHIP	0.47µF	10%	16V
C005	1-164-161-11	CERAMIC CHIP	0.0022µF 1	10%	50V	C232	1-163-021-91	CERAMIC CHIP	0.47μl 0.01μF	10%	50V
						C232	1-164-492-11	CERAMIC CHIP	0.01μF 0.15μF	10%	16V
C006	1-164-161-11	CERAMIC CHIP	0.0022µF 1	10%	50V	C233	1-104-492-11	CERAMIC CHIP	0.15μF 2.2μF	10%	6.3V
C007	1-126-933-11	ELECT	100µF 2	20%	16V	C234			-		25V
C008	1-163-021-91	CERAMIC CHIP	•		50V	C236	1-164-004-11	CERAMIC CHIP	0.1µF	10% 20%	20V 50V
C009	1-126-964-11	ELECT			50V		1-126-964-11	ELECT	10µF		
C010	1-126-933-11	ELECT			16V	C237	1-126-933-11	ELECT	100µF	20%	16V

NOTE: Les composants identifies par un trame et une marque $ilde{ ext{$\scalebox$}}$ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.



REF. NO.	PART NO.	DESCRIPTION	VALUES	;			REF. NO.	PART NO.	DESCRIPTION	VALUES	S	
C238	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V		C748	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C239	1-126-964-11	ELECT			50V	<u>/</u> !\	C6002	1-136-346-21	MYLAR	0.22µF	20%	125V
C240	1-164-004-11	CERAMIC CHIP			25V	-	C6003	1-117-227-11	MYLAR	1µF	10%	450V
					25V		C6004	1-126-961-11	ELECT	2.2µF	20%	50V
C241	1-164-004-11	CERAMIC CHIP					C6005	1-126-961-11	ELECT	2.2µF	20%	50V
C242	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V		C0003	1-120-901-11	ELECT	2.2μΓ	20%	30 V
C243	1-107-823-11	CERAMIC CHIP	0.47µF	10%	16V		C6006	1-126-967-11	ELECT	47µF	20%	50V
C244	1-163-017-00	CERAMIC CHIP		10%	50V		C6007	1-163-009-91	CERAMIC CHIP	0.001µF	10%	50V
C245	1-107-823-11	CERAMIC CHIP		10%	16V		C6008	1-126-968-11	ELECT	100µF	20%	50V
C246	1-164-004-11	CERAMIC CHIP			25V		C6009	1-126-947-11	ELECT	47μF	20%	25V
					16V		C6011	1-126-968-11	ELECT	47μ1 100μF	20%	50V
C247	1-126-933-11	ELECT	100µF	20%	100		00011	1 120 300 11	LLLOT	ισομι	2070	00 V
C248	1-127-760-11	CERAMIC CHIP	4.7µF	10%	6.3V		C6013	1-119-887-51	CERAMIC	1000pF	20%	250V
C249	1-126-967-11	ELECT	47µF	20%	50V		C6014	1-135-945-21	FILM	10000pF	3%	800V
C250	1-107-823-11	CERAMIC CHIP		10%	16V		C6015	1-130-495-00	MYLAR	0.1µF	5%	50V
C251	1-115-340-11	CERAMIC CHIP		10%	25V		C6017	1-125-969-91	CERAMIC	680pF	10%	1KV
C252	1-126-933-11	ELECT		20%	16V		C6018	1-126-929-11	ELECT	4700µF	20%	10V
0232	1-120-333-11	LLLOI	ισομι	20 /0	10 V		00010	1 120 020 11		1100µ1	2070	
C253	1-163-009-91	CERAMIC CHIP	0.001µF	10%	50V		C6019	1-128-546-11	ELECT	10000µF	20%	10V
C254	1-115-339-11	CERAMIC CHIP			50V		C6020	1-126-936-11	ELECT	3300µF	20%	16V
C255	1-163-243-11	CERAMIC CHIP		5%	50V		C6021	1-163-037-11	CERAMIC CHIP	0.022µF	10%	50V
C256	1-163-243-11	CERAMIC CHIP	•	5%	50V		C6026	1-126-933-11	ELECT	100µF	20%	16V
C257	1-127-760-11	CERAMIC CHIP			6.3V		C6027	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
0231	1-121-100-11	OLIVAIVIIO OTIII	4.7 μι	10 /0	0.5 V		00027	1 100 021 01	ozra umo orm	0.01μ1	1070	001
C258	1-164-346-11	CERAMIC CHIP	1μF		16V	<u> </u>	C6029	1-136-311-11	MYLAR	0.47µF	20%	125V
C259	1-115-340-11	CERAMIC CHIP	0.22µF	10%	25V		C6030	1-126-935-11	ELECT	470µF	20%	16V
C260	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V		C6033	1-126-941-11	ELECT	470µF	20%	25V
C261	1-126-933-11	ELECT	100µF	20%	16V		C6045	1-126-926-11	ELECT	1000µF	20%	10V
C262	1-164-004-11	CERAMIC CHIP			25V		C6048	1-126-767-11	ELECT	1000µF	20%	16V
			·									
C701	1-164-489-11	CERAMIC CHIP		10%	16V		C6057	1-126-916-11	ELECT	1000µF	20%	6.3V
C702	1-126-947-11	ELECT	47µF	20%	16V		C6059	1-126-971-11	ELECT	470µF	20%	50V
C703	1-126-947-11	ELECT	47µF	20%	16V		C6060	1-135-573-51	ELECT	15000µF	20%	25V
C705	1-164-346-11	CERAMIC CHIP	1μF		16V		C6061	1-126-960-11	ELECT	1μF	20%	50V
C708	1-164-346-11	CERAMIC CHIP	1μF		16V		C6062	1-126-947-11	ELECT	47µF	20%	25V
0740	4 400 054 44	OEDAMIO OLIID	400×F	F0/	F0\/		C6063	1-136-479-11	FILM	0.001µF	2%	50V
C710	1-163-251-11	CERAMIC CHIP		5%	50V		C6064	1-126-964-11	ELECT	0.00 τμε 10μF	20%	50V
C711	1-163-227-11	CERAMIC CHIP		0.50pF								
C712	1-126-947-11	ELECT	-	20%			C6065	1-126-933-11	ELECT	100µF	20%	16V
C713	1-164-690-91	CERAMIC CHIP	0.0022µF		50V		C7001	1-126-961-11	ELECT	2.2µF	20%	50V
C715	1-126-964-11	ELECT	10μF	20%	50V		C7006	1-126-767-11	ELECT	1000µF	20%	16V
C717	1-163-031-91	CERAMIC CHIP	0.01µF		50V		C7007	1-136-169-00	FILM	0.22µF	5%	50V
C718	1-163-235-11	CERAMIC CHIP		5%	50V		C7008	1-126-767-11	ELECT	1000μF	20%	16V
C719	1-163-235-11	CERAMIC CHIP			50V		C7009	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C720	1-126-935-11	ELECT	•		16V		C7010	1-126-963-11	ELECT	4.7µF	20%	50V
							C7011	1-126-959-11	ELECT	0.47µF	20%	50V
C721	1-163-231-11	CERAMIC CHIP	15pF	5%	50V		07011	1-120-333-11	LLLOT	υ.+/μι	20 /0	30 V
C722	1-163-231-11	CERAMIC CHIP	15pF	5%	50V		C7012	1-163-017-00	CERAMIC CHIP	0.001µF	10%	50V
C724	1-126-961-11	ELECT			50V		C7013	1-164-182-11	CERAMIC CHIP	0.01µF	10%	50V
C731	1-163-009-91	CERAMIC CHIP	•		50V		C7014	1-163-989-11	CERAMIC CHIP	0.033µF	10%	25V
C732	1-163-251-11	CERAMIC CHIP		5%	50V		C7015	1-163-989-11	CERAMIC CHIP	0.033µF	10%	25V
C733	1-163-031-91	CERAMIC CHIP	0.01µF		50V		C7016	1-126-959-11	ELECT	0.47µF	20%	50V
2,00		22.0	2.2.mi									
C735	1-163-275-11	CERAMIC CHIP	0.001µF	5%	50V		C7017	1-126-963-11	ELECT	4.7µF	20%	50V
C747	1-126-767-11	ELECT			16V		C7018	1-136-169-00	FILM	0.22µF	5%	50V
			r ·				C7019	1-163-017-00	CERAMIC CHIP	0.001µF	10%	50V
										r	-	



1-163-88-9-11 CERAMIC CHIP 0.003	REF. NO.	PART NO.	DESCRIPTION	VALUES	3		,	REF. NO.	PART NO.	DESCRIPTION	VALUE	ES	
	C7020	1-163-989-11	CERAMIC CHIP	0.033µF	10%	25V		C7105	1-126-935-11	ELECT	470µF	20%	16V
CFRO202	C7021	1-164-182-11	CERAMIC CHIP	0.01µF	10%	50V							
1-726-935-11 ELECT 470 20% 169 C7110 1-126-941-11 ELECT 470 20% 20% 169 C7152 1-126-967-11 ELECT 470 20% 20% 169 C7152 1-126-967-11 ELECT 470 20% 509 C7152 1-126-967-11 ELECT 2200 EV C7152 1-126-967-11 ELECT 2200 EV C7152 1-126-967-11 ELECT 2200 EV C7152 ELECT EV C7152 ELECT ELECT EV C7152 ELECT EV C7152 ELECT ELECT EV C7152 ELECT EV EV C7152 ELECT EV EV EV													
C7125													
CONNECTOR 1-126-960-11 ELECT	01024	1 120 300 11	LLLOT	πιομι	2070	101							
Company Comp	C7025	1_126_960_11	FLECT	1uF	20%	50\/		G/ 13Z	1-120-907-11	ELECT	41µr	20%	30 V
C7030									CONNECTOR				
1-18-309-91 CERMIN CHIP 0.001pF 10% 50V CN023 1-78-89-11 CONNECTOR, BOARD TO BOARD 10P C7033 1-128-93-11 ELECT 220pF 20% 50V CN224 1-78-892-11 CONNECTOR, BOARD TO BOARD 10P C7033 1-128-942-11 ELECT 220pF 20% 50V CN224 1-78-892-11 CONNECTOR, BOARD TO BOARD 10P C7034 1-136-165-00 FILM 0.1pF 5% 50V CN224 1-78-892-11 ELECT 1000pF 20% 25V CN725 1-77-892-11 ELECT 1000pF 20% 25V CN725 1-78-894-11 ELECT 2000pF 20% 25V CN225 1-78-894-11 ELECT 2000pF 20% 25V ENDOS 2000pF 20% 25V													
Cr030							*	CN001	1-573-296-21	CONNECTOR, BOAF	RD TO BOAR	D 10P	
C7032							1		1-785-304-11	CONNECTOR, DIN (I	RECEPTACL	E) 64	
1-16-3-038-91 CERAMIC CHIP O.1	G7030	1-120-955-11	ELECT	2200μΓ	20%	337	1	CN201	1-779-892-11	CONNECTOR, BOAF	RD TO BOAR	D 10P	
C7033	07000	4 400 000 04	CEDAMIC CUID	0.4		051/	*	CN202	1-764-333-11	PLUG,CONNECTOR	10P		
C7036					000/		*	CN203	1-779-892-11	CONNECTOR, BOAF	RD TO BOAR	D 10P	
C7036													
C7036 1-138-169-00 FILM							*	CN204	1-564-506-11	PLUG,CONNECTOR	3P		
C7037 1-136-160-00 FILM							*		1-564-515-11				
C7037	C7036	1-126-942-61	ELECT	1000µF	20%	25V	*			•		D 8P	
C7038 1-126-962-41 ELECT 1000 F 5% 50V CN706 1-779-891-11 CONNECTOR 5P							*						
C7039 1-136-160-00 FILM	C7037	1-136-160-00	FILM	0.015µF	5%	50V	*					D 01	
C7056 1-126-953-11 ELECT 220∪F 20% 35V CN0707 1-126-953-11 ELECT 220∪F 20% 35V CN0707 1-56-650-71 PILUG,CONNECTOR (PC BOARD) 3P C7058 1-126-960-11 CLECT 1 µF 20% 50V CN6002 1-766-241-11 PIN,CONNECTOR (PC BOARD) 3P C7059 1-164-004-11 CERAMIC CHIP 0.1 µF 10% 25% 50V CN6003 1-766-241-11 PIN,CONNECTOR (PC BOARD) 3P C7061 1-126-964-11 ELECT 10 µF 20% 50V CN6005 1-766-241-11 PIN,CONNECTOR (PC BOARD) 3P C7062 1-163-09-91 ELECT 10 µF 50% 50V CN6005 1-766-161-11 PIN,CONNECTOR (PC BOARD) 4P C7063 1-136-165-00 FILM 0.1 µF 5% 50V CN7001 1-573-296-21 CONNECTOR, PC BOARD 4P C7066 1-136-165-00 FILM 0.1 µF 5% 50V CN7001 1-573-296-21 CONNECTOR (PC BOARD) 4P C7070 1-136-165-00	C7038	1-126-942-61	ELECT	1000µF	20%	25V		CIVIUS	1-304-300-11	T LOG, CONNECTOR	JI		
Crosp	C7039	1-136-160-00	FILM	0.015µF	5%	50V	*	CN706	1 770 901 11	CONNECTOD BOXE		ח פס	
Crost 1-126-953-11 ELECT 2200µF 20% 35V CNR0101 1-766-241-11 PIN_CONNECTOR (PC BOARD) 3P Crost 1-126-960-11 ELECT 1µF 20% 50V CNR0002 1-766-241-11 PIN_CONNECTOR (PC BOARD) 3P PIN_CONNECTOR (PC BOARD) 4P PIN	C7056	1-126-953-11	ELECT	2200µF	20%	35V	*					ט טר	
C7058 1-126-960-11 ELECT 1µF 20% 50V C (N6002) 1-760-21-11 PINCONNECTOR (PC BOARD) 3P C7059 1-164-004-11 CERAMIC CHIP 0.1µF 10% 50V C (N6003) 1-508-786-00 PINCONNECTOR (PC BOARD) 3P C7061 1-126-984-11 ELECT 10µF 20% 50V C (N6003) 1-766-176-11 PINCONNECTOR (PC BOARD) 6P C7062 1-136-165-00 FILM 0.01µF 5% 50V C (N6003) 1-766-176-11 PINCONNECTOR (PC BOARD) 6P C7064 1-126-953-11 ELECT 220µF 5% 50V C (N6003) 1-766-176-11 PINCONNECTOR (PC BOARD) 6P C7064 1-126-953-11 ELECT 220µF 5% 50V C (N7001) 1-578-299-21 C (ONNECTOR (PC BOARD) 4P C7067 1-136-165-00 FILM 0.1µF 5% 50V C (N7001) 1-578-299-21 C (ONNECTOR (PC BOARD) 4P C7070 1-136-165-00 FILM 0.1µF 5% 50V C (N7001) 1-578-299-21-11 <td< td=""><td>C7057</td><td>1-126-953-11</td><td>ELECT</td><td></td><td></td><td></td><td>1</td><td></td><td></td><td>,</td><td></td><td>n</td><td></td></td<>	C7057	1-126-953-11	ELECT				1			,		n	
C7058							1						
C7059	C7058	1-126-960-11	FLECT	1uF	20%	50V	1						
C7061							*	CN6003	1-508-786-00	PIN, CONNECTOR (5	MM PITCH)	2P	
C7062							1.					_	
C7063							1						
C7064 1-126-953-11 ELECT 2200 F 20% 35V CN0703 1-766-240-11 CN08CTOR (PC BOARD) 2P CN7001 1-753-296-21 CONNECTOR (PC BOARD) 2P CN7003 1-766-240-11 CN7003 CN7003 1-766-240-11 CN7003 CN7							*					D 8P	
C7064 1-126-963-11 ELECT 2200µF 20% 35V CN7003 1-564-511-11 CNNECTOR, BOARD TO BOARD 10P	07000	1-100-100-00	I ILIVI	υ. ιμι	J /0	00 V							
C7066 1-136-165-00 FILM 0.1μF 5% 50V CN7003 1-564-511-11 PLUG, CONNECTOR 8P C7067 1-136-165-00 FILM 0.039μF 5% 50V CN7008 1-564-511-61 PLUG, CONNECTOR 8P C7070 1-136-165-00 FILM 0.039μF 5% 50V D004 8-719-977-28 D10DE UDZSTE-1710B C7071 1-137-437-11 MYLAR 0.0022μF 5% 50V D008 8-719-977-28 D10DE UDZSTE-1710B C7072 1-137-437-11 MYLAR 0.0022μF 5% 50V D008 8-719-977-28 D10DE UDZSTE-1710B C7074 1-164-004-11 CERAMIC CHIP 0.1μF 10% 25V D203 8-719-991-33 D10DE UZSTE-1710B C7075 1-164-004-11 CERAMIC CHIP 0.1μF 10% 25V D211 8-719-991-33 D10DE MS113-T7 C7076 1-126-960-11 ELECT 1μF 20% 50V D212 8-719-404-50 D10DE MA111-TX C7077 1-126	C706/	1_126_053_11	FLECT	2200uE	20%	35\/	1				,		
C7067 1-136-165-00 1-136-165-00 FILM FILM 0.1μF 0.039μF 0.039μF 0.0022μF 0.000022μF 0.000222μF 0.00022μF 0.00022μF 0.00022μF 0.00022μF 0.00022μF 0.00022μF 0.00022μF 0.00022μF 0.00022μF 0.00022μF 0.00022μF 0.00022μF 0.00022μF 0.00022μF 0.00022μF 0.00022μF 0.00022μF 0.00022μF 0.000222μF 0.00022μF 0.00							1		1-573-296-21	CONNECTOR, BOAF	RD TO BOAR	D 10P	
C7069 1-136-165-00 FILM 0.039μF 5% 50V DIODE C7070 1-136-165-00 FILM 0.039μF 5% 50V DIODE C7071 1-137-437-11 MYLAR 0.0022μF 5% 50V D004 8-719-977-28 DIODE UDZSTE-1710B C7074 1-164-004-11 CERAMIC CHIP 0.1μF 10% 25V D203 8-719-977-28 DIODE UDZSTE-1710B C7074 1-164-004-11 CERAMIC CHIP 0.1μF 10% 25V D203 8-719-997-28 DIODE DIODE UDZSTE-1710B C7075 1-164-004-11 CERAMIC CHIP 0.1μF 10% 25V D211 8-719-991-33 DIODE DIODE INSTIBUTE C7076 1-126-968-11 ELECT 100μF 20% 50V D212 8-719-404-50 DIODE MA111-TX C7076 1-126-960-11 ELECT 1μF 20% 50V D215 8-719-404-50 DIODE MA111-TX C7084 1-163-251-11 CERAMIC CHIP 100pF 5% 50V <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td>1</td><td>CN7003</td><td>1-564-511-11</td><td>PLUG,CONNECTOR</td><td>8P</td><td></td><td></td></td<>							1	CN7003	1-564-511-11	PLUG,CONNECTOR	8P		
C7070 1-136-165-00 FILM 0.039µF 5% 50V DIODE C7071 1-137-437-11 MYLAR 0.0022µF 5% 50V D004 8-719-977-28 DIODE UDZSTE-1710B C7072 1-137-437-11 MYLAR 0.0022µF 5% 50V D008 8-719-977-28 DIODE UDZSTE-1710B C7074 1-164-004-11 CERAMIC CHIP 0.1µF 10% 25V D203 8-719-025-31 DIODE 02CZ5.6-TE85L C7075 1-164-004-11 CERAMIC CHIP 0.1µF 10% 25V D211 8-719-991-33 DIODE 1SS133T-77 C7076 1-126-968-11 ELECT 1µF 20% 50V D212 8-719-404-50 DIODE MA111-TX C7077 1-126-960-11 ELECT 1µF 20% 50V D214 8-719-404-50 DIODE MA111-TX C7078 1-128-960-11 ELECT 1µF 20% 50V D701 8-719-914-43 DIODE MA111-TX C7084 1-163-251-11 CERAMIC CHIP 100pF <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td>*</td><td>CN7008</td><td>1-564-511-61</td><td>PLUG,CONNECTOR</td><td>8P</td><td></td><td></td></t<>							*	CN7008	1-564-511-61	PLUG,CONNECTOR	8P		
C7071 1-137-437-11 MYLAR 0.0022μF 5% 50V D008 8-719-977-28 DIODE UDZSTE-1710B C7072 1-137-437-11 MYLAR 0.0022μF 5% 50V D008 8-719-977-28 DIODE UDZSTE-1710B C7074 1-164-004-11 CERAMIC CHIP 0.1μF 10% 25V D203 8-719-025-31 DIODE 0ZCZ5.6-TE85L C7075 1-164-004-11 CERAMIC CHIP 0.1μF 10% 25V D211 8-719-991-33 DIODE 1SS133T-77 C7076 1-126-968-11 ELECT 100μF 20% 50V D212 8-719-404-50 DIODE MA111-TX C7077 1-126-960-11 ELECT 1μF 20% 50V D214 8-719-404-50 DIODE MA111-TX C7078 1-126-960-11 ELECT 1μF 20% 50V D215 8-719-404-50 DIODE MA111-TX C7084 1-163-251-11 CERAMIC CHIP 0.047μF 10% 50V D701 8-719-914-43 DIODE DAN202K-T-146 C7088 1-163-251-11 CERAMIC CHIP 100pF 5% 50V D703 8-719-404-50 DIODE MA111-TX C7090 1-126-947-11 ELECT 47μF 20% 25V D706 8-719-404-50 DIODE MA111-TX C7091 1-126-960-11 ELECT 1μF 20% 50V D705 8-719-404-50 DIODE MA111-TX C7090 1-126-960-11 ELECT 1μF 20% 50V D708 8-719-404-50 DIODE MA111-TX C7091 1-126-960-11 ELECT 1μF 20% 50V D708 8-719-404-50 DIODE MA111-TX C7091 1-126-960-11 ELECT 1μF 20% 50V D708 8-719-914-43 DIODE DAN202K-T-146 C7091 1-126-960-11 ELECT 1μF 20% 50V D708 8-719-914-43 DIODE DAN202K-T-146 C7091 1-126-960-11 ELECT 1μF 20% 50V D708 8-719-914-43 DIODE MA111-TX C7091 1-126-960-11 ELECT 1μF 20% 50V D709 8-719-991-33 DIODE MA111-TX C7091 1-126-960-11 ELECT 1μF 20% 50V D709 8-719-991-33 DIODE DAN202K-T-146 C7091 1-126-960-11 ELECT 1μF 20% 50V D709 8-719-991-33 DIODE DAN202K-T-146 C7091 1-126-960-11 ELECT 1μF 20% 50V D709 8-719-991-33 DIODE DAN202K-T-146 C7091 1-126-960-11 ELECT 1μF 20% 50V D709 8-719-991-33 DIODE DAN202K-T-146 C7091 1-126-960-11 ELECT 1μF 20% 50V D709 8-719-991-33 DIODE DAN202K-T-146 C7091 1-126-935-11 ELECT 470μF 20% 16V D715 8-719-914-44 DIODE DAN202K-T-146 C7101 1-126-935-11 ELECT 470μF 20% 16V D715 8-719-914-43 DIODE DAN202K-T-146 C7101 1-126-934-11 ELECT 420μF 20% 16V D715 8-719-914-44 DIODE DAN202K-T-146 C7101 1-126-934-11 ELECT 420μF 20% 16V D715 8-719-914-44 DIODE DAN202K-T-146 C7102 1-126-934-11 ELECT 420μF 20% 16V D715 8-719-914-44 DIODE DAN202K-T-146 C7103 1-1													
C7077 1-126-960-11 ELECT 1μF 20% 50V D214 8-719-404-50 DIODE MA111-TX C7078 1-126-960-11 ELECT 1μF 20% 50V D701 8-719-914-43 DIODE DAN202K-T-146 C708 1-163-251-11 CERAMIC CHIP 100pF 5% 50V D705 8-719-404-50 DIODE MA111-TX C708 1-163-251-11 ELECT 47μF 20% 50V D703 8-719-404-50 DIODE MA111-TX C7090 1-126-960-11 ELECT 1μF 20% 50V D703 8-719-404-50 DIODE MA111-TX C7090 1-126-960-11 ELECT 1μF 20% 50V D703 8-719-404-50 DIODE MA111-TX C7090 1-126-960-11 ELECT 1μF 20% 50V D703 8-719-404-50 DIODE MA111-TX C7090 1-126-960-11 ELECT 1μF 20% 50V D703 8-719-404-50 DIODE MA111-TX C7090 1-126-960-11 ELECT 1μF 20% 50V D703 8-719-404-50 DIODE MA111-TX C7090 1-126-960-11 ELECT 1μF 20% 50V D705 8-719-404-50 DIODE MA111-TX C7090 1-126-960-11 ELECT 1μF 20% 50V D705 8-719-404-50 DIODE MA111-TX C7090 1-126-960-11 ELECT 1μF 20% 50V D705 8-719-404-50 DIODE MA111-TX C7090 1-126-960-11 ELECT 1μF 20% 50V D707 8-719-914-43 DIODE DAN202K-T-146 C7091 1-126-960-11 ELECT 1μF 20% 50V D708 8-719-404-50 DIODE MA111-TX C7091 1-126-960-11 ELECT 1μF 20% 50V D708 8-719-914-43 DIODE DAN202K-T-146 C7091 1-126-960-11 ELECT 1μF 20% 50V D708 8-719-914-43 DIODE DAN202K-T-146 C7091 1-126-960-11 ELECT 1μF 20% 50V D709 8-719-913-33 DIODE DAN202K-T-146 C7091 1-126-960-11 ELECT 1μF 20% 50V D709 8-719-914-43 DIODE DAN202K-T-146 C7091 1-126-960-11 ELECT 1μF 20% 50V D709 8-719-914-43 DIODE DAN202K-T-146 C7091 1-126-960-11 ELECT 1μF 20% 50V D709 8-719-914-43 DIODE DAN202K-T-146 C7091 1-126-960-11 ELECT 1μF 20% 50V D709 8-719-914-43 DIODE DAN202K-T-146 C7091 1-126-960-11 ELECT 1μF 20% 50V D710 8-719-914-43 DIODE DAN202K-T-146 C7101 1-126-934-11 ELECT 470μF 20% 16V D715 8-719-914-43 DIODE DAN202K-T-146 C7101 1-126-934-11 ELECT 470μF 20% 16V D715 8-719-914-43 DIODE DAN202K-T-146 C7101 1-126-934-11 ELECT 220μF 20% 16V D715 8-719-914-43 DIODE DAN202K-T-146 C7101 1-126-934-11 ELECT 470μF 20% 16V D715 8-719-914-43 DIODE DAN202K-T-146 C7101 1-126-934-11 ELECT 220μF 20% 16V D715 8-719-914-43 DIODE DAN202K-T-146 C7101 1-126-934-11 ELECT 470μF 20% 16V D715 8-719-914-43 DIODE	G7070	1-136-165-00	FILM	0.039µF	5%	50V			DIODE				
C7072 1-137-437-11 MYLAR 0.0022μF 5% 50V D008 8-719-977-28 DIODE UDZSTE-1710B C7074 1-164-004-11 CERAMIC CHIP 0.1μF 10% 25V D203 8-719-025-31 DIODE 02CZ5.6-TE85L D10705 1-164-004-11 CERAMIC CHIP 0.1μF 10% 25V D211 8-719-991-33 DIODE 1SS133T-77 D212 8-719-404-50 DIODE MA111-TX D212 8-719-404-50 DIODE MA111-TX D212 8-719-404-50 DIODE MA111-TX D213 DIODE MA111-TX D214 8-719-404-50 DIODE MA111-TX D215 8-719-404-50 DIODE DAN202K-T-146 D215 8-719-404-50 DIODE DAN202K-T-146 D215 8-719-404-50 DIODE MA111-TX D215 8-719-404-50 DIODE DAN202K-T-146 D215 BAN202K-T-146 D215 BAN2	C7071	1-137-437-11	MYLAR	0.0022uF	5%	50V		D004	8-719-977-28	DIODE UDZSTE-171	0B		
C7074 1-164-004-11 CERAMIC CHIP 0.1μF 10% 25V D213 8-719-025-31 DIODE 02CZ5.6-TE85L D1075 1-164-004-11 CERAMIC CHIP 0.1μF 10% 25V D211 8-719-991-33 DIODE 1SS133T-77 D1076 1-126-968-11 ELECT 100μF 20% 50V D212 8-719-404-50 DIODE MA111-TX D1076 1-126-960-11 ELECT 1μF 20% 50V D215 8-719-404-50 DIODE MA111-TX D1076 1-126-960-11 ELECT 1μF 20% 50V D701 8-719-914-43 DIODE DAN202K-T-146 D1076 1-126-961-11 ELECT 100μF 5% 50V D703 8-719-914-43 DIODE DAN202K-T-146 D1076 1-126-961-11 ELECT 1μF 20% 50V D705 8-719-404-50 DIODE MA111-TX D1076 1-126-960-11 ELECT 1μF 20% 50V D703 8-719-914-43 DIODE DAN202K-T-146 D1076 1-126-960-11 ELECT 1μF 20% 50V D705 8-719-914-43 DIODE DAN202K-T-146 D1076 1-126-960-11 ELECT 1μF 20% 50V D707 8-719-914-43 DIODE DAN202K-T-146 D1076 1-126-960-11 ELECT 1μF 20% 50V D707 8-719-914-43 DIODE DAN202K-T-146 D1076 1-126-960-11 ELECT 1μF 20% 50V D708 8-719-914-43 DIODE DAN202K-T-146 D1076 1-126-960-11 ELECT 1μF 20% 50V D708 8-719-914-43 DIODE DAN202K-T-146 D1076 1-126-960-11 ELECT 1μF 20% 50V D708 8-719-914-43 DIODE DAN202K-T-146 D1076 1-126-960-11 ELECT 1μF 20% 50V D708 8-719-914-43 DIODE DAN202K-T-146 D1076 1-126-964-11 ELECT 1μF 20% 50V D709 8-719-914-43 DIODE DAN202K-T-146 D1076 1-126-964-11 ELECT 10μF 20% 50V D709 8-719-914-43 DIODE DAN202K-T-146 D1076								D008	8-719-977-28	DIODE UDZSTE-171	0B		
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C7084 1-163-017-00 CERAMIC CHIP 0.0047µF 10% 50V D701 8-719-914-43 DIODE DAN202K-T-146 D100E DAN202K-T-146								D215	8-719-404-50	DIODE MA111-TX			
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C7089 1-163-251-11 CERAMIC CHIP 100pF 5% 50V D705 8-719-404-50 DIODE MA111-TX C7090 1-126-947-11 ELECT 47µF 20% 25V D706 8-719-914-43 DIODE DAN202K-T-146 DIODE DAN20													
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C7102 1-126-934-11 ELECT 220µF 20% 16V D715 8-719-914-43 DIODE DAN202K-T-146	51000	20 007 11		·σμι	_0 /0	00 V							
C7102 1-126-934-11 ELECT 220µF 20% 16V D715 8-719-914-43 DIODE DAN202K-T-146	C7101	1-126-935-11	ELECT	470uF	20%	16V		D711	8-719-914-44	DIODE DAP202K-T-1	46		
D740 0740 44 BIODE DADOOU T440								D715	8-719-914-43	DIODE DAN202K-T-1	46		
C. CO COCC. GERBING OTH CITY LOT					_0 /0			D716	8-719-914-44	DIODE DAP202K-T-1	46		
	5.100		2 o o i iii	4h.			I						

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NOTE: The components identified by shading and riangle mark are critical for safety. Replace only with part number specified.

NOTE: Les composants identifies par un trame et une marque $\hat{\bot}$ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

REF. NO.	PART NO.	DESCRIPTION	VALUES	REF. NO.	PART NO.	DESCRIPTION	VALUES
D719	8-719-404-50	DIODE MA111-TX			FUSE HOLDER		
D720	8-719-404-50	DIODE MA111-TX		=,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
D721	8-719-404-50	DIODE MA111-TX		FH6001	1-533-223-11	HOLDER, FUSE	
D722	8-719-404-50	DIODE MA111-TX		FH6002	1-533-223-11	HOLDER, FUSE	
D723	8-719-914-43	DIODE DAN202K-T-146			<u>IC</u>		
		2.02227202			<u>10</u>		
D724	8-719-404-50	DIODE MA111-TX		IC201	8-752-100-25	IC CXA2150AQ	
D725	8-719-404-50	DIODE MA111-TX		IC701	6-800-051-01	IC M306V2ME-153FP	
D726	8-719-404-50	DIODE MA111-TX		IC702	8-759-349-11	IC PST9145NL	
D727	8-719-404-50	DIODE MA111-TX		IC707	8-759-672-78	IC M24C08-BN6(A)	
D727	8-719-404-50	DIODE MA111-TX		IC6001	8-759-670-30	IC MCZ3001D	
D120	0-7 13-404-30	DIODE WIATTI-TA			0.000.00		
D6001	8-719-991-33	DIODE 1SS133T-77		IC6002	8-759-140-85	IC UPC1093J-T	
D6001	8-719-991-33	DIODE 188133T-77		IC6003	8-759-520-49	IC PQ30RV21	
D6002	8-719-979-64	DIODE µF4005PKG23		IC6007	8-759-513-71	IC PQ05RF21	
		•		IC6010	8-759-653-07	IC PQ09RD21	
D6005	8-719-063-73	DIODE D1NL20U-TR		IC6011	8-759-450-47	IC BA05T	
D6009	8-719-063-73	DIODE D1NL20U-TR		100011	0-133-430-41	IC DA001	
D6044	0 740 004 70	DIODE DECCAM		IC7001	8-759-678-92	IC BH3868AFS-E2	
D6011	8-719-031-79	DIODE D5SC4M		IC7001	8-759-246-70	IC TA8216H	
D6012	8-719-031-79	DIODE D5SC4M		IC7002	8-759-246-70	IC TA8216H	
D6013	8-719-031-79	DIODE D5SC4M		IC7003			
D6014	8-719-921-63	DIODE MTZJ-T-77-7.5B			8-759-331-71	IC NJM4558E(TE2)	
D6017	8-719-921-37	DIODE MTZJ-T-77-4.7		IC7007	8-759-331-71	IC NJM4558E(TE2)	
D6018	8-719-991-33	DIODE 1SS133T-77			<u>COIL</u>		
D6020	8-719-511-40	DIODE S1VB20		1.004	4 400 200 24	INDUCTOR	100.11
D6025	8-719-404-50	DIODE MA111-TX		L001	1-469-320-21	INDUCTOR	100µH
D7002	8-719-991-33	DIODE 1SS133T-77		L002	1-469-320-21	INDUCTOR	100µH
D7002	8-719-914-43	DIODE DAN202K-T-146		L003	1-469-317-21	INDUCTOR	10µH
D7003	0-113-314-43	DIODE DANZUZK-1-140		L004	1-469-320-21	INDUCTOR	100µH
D7004	8-719-914-44	DIODE DAP202K-T-146		L005	1-469-320-21	INDUCTOR	100µH
D7004 D7005	8-719-914-44 8-719-071-74	DIODE HZU11B1TRF					40.44
				L006	1-469-317-21	INDUCTOR	10µH
D7009	8-719-404-50	DIODE MA111-TX		L201	1-469-317-21	INDUCTOR	10µH
D7010	8-719-404-50	DIODE MA111-TX		L202	1-469-317-21	INDUCTOR	10μH
D7011	8-719-404-50	DIODE MA111-TX		L203	1-469-317-21	INDUCTOR	10μH
D7040	0.740.404.50	DIODE MAAAA TV		L701	1-412-911-11	FERRITE	0μΗ
D7012	8-719-404-50	DIODE MA111-TX					
D7013	8-719-041-97	DIODE MA113-(TX)		L702	1-412-911-11	FERRITE	0μΗ
D7014	8-719-924-13	DIODE MTZJ-T-77-22B		L703	1-414-179-21	INDUCTOR	2.2µH
D7015	8-719-924-13	DIODE MTZJ-T-77-22B		L6001	1-406-665-11	INDUCTOR	100µH
D7016	8-719-041-97	DIODE MA113-(TX)		L6002	1-406-659-11	INDUCTOR	10μH
D7017	8-719-041-97	DIODE MA113-(TX)		L6003	1-406-659-11	INDUCTOR	10μH
D7103	8-719-404-50	DIODE MA111-TX					
	EUCE			L6004	1-412-525-31	INDUCTOR	10μH
	<u>FUSE</u>			L6006	1-412-519-11	INDUCTOR	3.3µH
∑ F6001	1-532-506-51	FUSE	6.3A/250V	L6007	1-412-519-11	INDUCTOR	3.3µH
	. 552 555 51		0.07 (200)	L6008	1-469-317-21	INDUCTOR	10µH
	FERRITE BEAD			L7002	1-414-187-11	INDUCTOR	47μΗ
FB6001	1-412-911-11	FERRITE	0μΗ		PHOTO COUPLE	R	
FB6003	1-412-911-11	FERRITE	0μΗ		. HOTO OUD! LL	113	
FB6004	1-412-911-11	FERRITE	0μΗ	PH6001	8-749-924-35	PHOTO COUPLER ON	3171-R
FB6005	1-412-911-11	FERRITE	0μH				
FB6007	1-412-911-11	FERRITE	0μH		TRANSISTOR		
∑ FB6012	1-412-911-11	FERRITE	0μH	0004	0 700 400 07	TDANICIOTAD GODGOA	A ODS TV
	1-412-911-11	FERRITE	0μH	Q001 Q002	8-729-422-27 8-729-422-27	TRANSISTOR 2SD601/ TRANSISTOR 2SD601/	
\ FR6013			WILL	UIIII	0-1/9-4//-//	TRANSISTUR /SUBUL	イーじれつ- 1 メ
∑ FB6013	1-412-311-11	TEIMITE	- P	Q002 Q004	8-729-424-02	TRANSISTOR 2SB709/	



REF. NO.	PART NO.	DESCRIPTION	VALUES	REF. NO.	PART NO.	DESCRIPTION	VALU	ES	
Q005	8-729-422-27	TRANSISTOR 2SD601	A-QRS-TX	Q7016	8-729-900-53	TRANSISTOR DTC1	14EKA-T146		
Q012	8-729-422-27	TRANSISTOR 2SD601	A-QRS-TX		RESISTOR				
Q015	8-729-422-27	TRANSISTOR 2SD601	A-QRS-TX		KESISTOK				
Q027	8-729-424-02	TRANSISTOR 2SB709	A-QRS-TX	R004	1-216-049-11	RES-CHIP	1K	5%	1/10W
Q203	8-729-122-63	TRANSISTOR 2SA122		R005	1-216-049-11	RES-CHIP	1K	5%	1/10W
Q200	0 720 122 00	1101101010101120/1122	O I ILT	R006			IIX	J /0	1/1000
0204	0 700 100 60	TRANSISTOR 2SA122	C T4F4	I	1-216-295-91	SHORT	47	F 0/	4/4014/
Q204	8-729-122-63			R007	1-216-017-91	RES-CHIP	47	5%	1/10W
Q207	8-729-122-63	TRANSISTOR 2SA122		R008	1-216-073-91	RES-CHIP	10K	5%	1/10W
Q208	8-729-122-63	TRANSISTOR 2SA122							
Q209	8-729-422-27	TRANSISTOR 2SD601		R009	1-216-017-91	RES-CHIP	47	5%	1/10W
Q211	8-729-422-27	TRANSISTOR 2SD601	A-QRS-TX	R010	1-216-073-91	RES-CHIP	10K	5%	1/10W
				R011	1-216-113-00	RES-CHIP	470K	5%	1/10W
Q212	8-729-422-27	TRANSISTOR 2SD601	A-QRS-TX	R012	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
Q214	1-801-806-11	TRANSISTOR DTC144	IEKA-T146	R013	1-216-081-00	RES-CHIP	22K	5%	1/10W
Q216	8-729-424-02	TRANSISTOR 2SB709	A-ORS-TX	1010	1210 001 00	1120 01111		070	17 1011
Q217	8-729-422-27	TRANSISTOR 2SD601		R014	1-216-085-91	RES-CHIP	33K	5%	1/10W
Q701	8-729-424-02	TRANSISTOR 2SB709							
QIUI	0-125-424-02	TRANSISTOR 23D103	A-QNO-1A	R015	1-208-776-11	METAL CHIP	560		1/10W
0700	0.700.400.07	TD 4 NOIGTOD 00D004	1 0D0 TV	R016	1-216-025-11	RES-CHIP	100	5%	1/10W
Q702	8-729-422-27	TRANSISTOR 2SD601		R017	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
Q703	1-801-806-11	TRANSISTOR DTC144		R037	1-216-295-91	SHORT			
Q704	1-801-806-11	TRANSISTOR DTC144	IEKA-T146						
Q705	8-729-424-02	TRANSISTOR 2SB709	A-QRS-TX	R039	1-216-025-11	RES-CHIP	100	5%	1/10W
Q706	8-729-424-02	TRANSISTOR 2SB709	A-QRS-TX	R042	1-216-025-11	RES-CHIP	100	5%	1/10W
				R049	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
Q707	8-729-422-27	TRANSISTOR 2SD601	A-ORS-TX	R052	1-216-085-91	RES-CHIP	33K	5%	1/10W
Q709	8-729-424-02	TRANSISTOR 2SB709		R055	1-216-081-00	RES-CHIP	22K	5%	1/10W
Q710	8-729-027-23	TRANSISTOR DTA114		11000	1-2 10-00 1-00	NEO-OHII	2211	J /0	1/1000
Q710 Q712	8-729-422-27	TRANSISTOR 2SD601		DOC4	4 000 770 44	METAL CLUD	ECO	0.500/	4/40/4/
				R061	1-208-776-11	METAL CHIP	560		1/10W
Q717	1-801-806-11	TRANSISTOR DTC144	IENA-1 140	R065	1-216-025-11	RES-CHIP	100	5%	1/10W
				R082	1-216-073-91	RES-CHIP	10K	5%	1/10W
Q721	8-729-422-27	TRANSISTOR 2SD601		R083	1-216-073-91	RES-CHIP	10K	5%	1/10W
Q723	8-729-422-27	TRANSISTOR 2SD601	A-QRS-TX	R160	1-216-113-00	RES-CHIP	470K	5%	1/10W
Q724	8-729-422-27	TRANSISTOR 2SD601	A-QRS-TX						
Q726	8-729-901-47	TRANSISTOR DTA143	EKA-T146	R163	1-216-642-11	METAL CHIP	430	0.50%	1/10W
Q727	8-729-901-47	TRANSISTOR DTA143	EKA-T146	R164	1-216-041-00	RES-CHIP	470	5%	1/10W
				R165	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
Q728	8-729-422-27	TRANSISTOR 2SD601	A-ORS-TX	R166	1-216-097-11	RES-CHIP	100K	5%	1/10W
Q729	8-729-422-27	TRANSISTOR 2SD601		R167	1-216-121-11	RES-CHIP	1M	5%	1/10W
Q730	8-729-424-02	TRANSISTOR 2SB709		107	1-210-121-11	NEO-OHII	TIVI	J /0	1/1000
				D400	4 040 070 04	DEC CUID	401/	E0/	4/40/4/
Q731	8-729-424-02	TRANSISTOR 2SB709		R168	1-216-073-91	RES-CHIP	10K	5%	1/10W
Q6001	8-729-422-27	TRANSISTOR 2SD601	A-UKS-1X	R169	1-216-073-91	RES-CHIP	10K	5%	1/10W
				R170	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
Q6002	8-729-027-23	TRANSISTOR DTA114		R171	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
Q6007	8-729-052-29	TRANSISTOR 2SK287	6-01MR-F122	R172	1-216-097-11	RES-CHIP	100K	5%	1/10W
Q6008	8-729-052-29	TRANSISTOR 2SK287	6-01MR-F122						
Q6009	8-729-424-02	TRANSISTOR 2SB709	A-QRS-TX	R173	1-216-121-11	RES-CHIP	1M	5%	1/10W
Q6010	8-729-422-27	TRANSISTOR 2SD601	A-QRS-TX	R174	1-216-073-91	RES-CHIP	10K	5%	1/10W
				R175	1-216-073-91	RES-CHIP	10K	5%	1/10W
Q7001	8-729-422-27	TRANSISTOR 2SD601	A-ORS-TX	R176	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
Q7001 Q7004	8-729-900-53	TRANSISTOR DTC114			1-216-003-91				
				R204	1-210-0/3-91	RES-CHIP	10K	5%	1/10W
Q7005	8-729-900-53	TRANSISTOR DTC114			4 040 00= **	DEO CLUB	100	E0/	414000
Q7009	8-729-900-53	TRANSISTOR DTC114		R205	1-216-025-11	RES-CHIP	100	5%	1/10W
Q7010	8-729-900-53	TRANSISTOR DTC114	IEKA-1146	R206	1-208-752-11	METAL CHIP	56		1/10W
				R207	1-249-413-11	CARBON	470	5%	1/4W
Q7013	8-729-900-53	TRANSISTOR DTC114	IEKA-T146	R208	1-216-295-91	SHORT			
Q7014	8-729-900-53	TRANSISTOR DTC114	IEKA-T146	R210	1-216-025-11	RES-CHIP	100	5%	1/10W
Q7015	8-729-900-53	TRANSISTOR DTC114	IEKA-T146						
				•					



REF. NO.	PART NO.	DESCRIPTION	VALUI	ES		REF. NO.	PART NO.	DESCRIPTION	VALUI	ES	
R211	1-208-752-11	METAL CHIP	56	0.50%	1/10W	R276	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R215	1-249-413-11	CARBON	470	5%	1/4W	R277	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R219	1-216-025-11	RES-CHIP	100	5%	1/10W	R278	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R220	1-208-752-11	METAL CHIP	56	0.50%		R280	1-216-295-91	SHORT			
R221	1-249-413-11	CARBON	470	5%	1/4W						
						R281	1-216-295-91	SHORT			
R223	1-216-025-11	RES-CHIP	100	5%	1/10W	R282	1-216-295-91	SHORT			
R226	1-216-073-91	RES-CHIP	10K	5%	1/10W	R283	1-216-295-91	SHORT			
R228	1-216-025-11	RES-CHIP	100	5%	1/10W	R284	1-216-295-91	SHORT			
R229	1-216-025-11	RES-CHIP	100	5%	1/10W	R701	1-216-089-91	RES-CHIP	47K	5%	1/10W
R230	1-216-025-11	RES-CHIP	100	5%	1/10W	R702	1-216-097-11	RES-CHIP	100K	5%	1/10W
R231	1-216-025-11	RES-CHIP	100	5%	1/10W	R703	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R232	1-216-025-11	RES-CHIP	100	5%	1/10W	R704	1-216-073-91	RES-CHIP	10K	5%	1/10W
R233	1-216-025-11	RES-CHIP	100	5%	1/10W	R705	1-216-101-00	RES-CHIP	150K	5%	1/10W
R234	1-216-025-11	RES-CHIP	100	5%	1/10W	R706	1-216-073-91	RES-CHIP	10K	5%	1/10W
N234	1-210-023-11	NEO-CHIF	100	J /0	1/1000	1700	1-210-073-31	NEO-CI IIF	IUN	J /0	1/1000
DOSE	1 016 005 11	DEC CHID	100	E0/	1/10\\\	D707	1 016 007 11	DEC CUID	1001/	E0/	1/10\\\
R235	1-216-025-11	RES-CHIP	100	5%	1/10W	R707	1-216-097-11	RES-CHIP	100K	5%	1/10W
R236	1-216-025-11	RES-CHIP	100	5%	1/10W	R708	1-216-025-11	RES-CHIP	100	5%	1/10W
R237	1-216-025-11	RES-CHIP	100	5%	1/10W	R709	1-216-097-11	RES-CHIP	100K	5%	1/10W
R238	1-216-025-11	RES-CHIP	100	5%	1/10W	R710	1-216-073-91	RES-CHIP	10K	5%	1/10W
R239	1-216-059-00	RES-CHIP	2.7K	5%	1/10W	R711	1-216-073-91	RES-CHIP	10K	5%	1/10W
R240	1-216-061-91	RES-CHIP	3.3K	5%	1/10W	R712	1-216-049-11	RES-CHIP	1K	5%	1/10W
R241	1-216-133-91	RES-CHIP	3.3M	5%	1/10W	R713	1-216-025-11	RES-CHIP	100	5%	1/10W
R242	1-216-075-00	RES-CHIP	12K	5%	1/10W	R714	1-216-025-11	RES-CHIP	100	5%	1/10W
R243	1-216-073-91	RES-CHIP	10K	5%	1/10W	R719	1-216-049-11	RES-CHIP	1K	5%	1/10W
R244	1-216-025-11	RES-CHIP	100	5%	1/10W	R721	1-216-049-11	RES-CHIP	1K	5%	1/10W
R245	1-216-073-91	RES-CHIP	10K	5%	1/10W	R727	1-216-049-11	RES-CHIP	1K	5%	1/10W
R246	1-216-073-91	RES-CHIP	10K	5%	1/10W	R729	1-216-049-11	RES-CHIP	1K	5%	1/10W
R247	1-216-065-91	RES-CHIP	4.7K	5%	1/10W	R731	1-216-073-91	RES-CHIP	10K	5%	1/10W
R248	1-216-065-91	RES-CHIP	4.7K	5%	1/10W	R740	1-216-073-91	RES-CHIP	10K	5%	1/10W
R249	1-216-025-11	RES-CHIP	100	5%	1/10W	R741	1-216-073-91	RES-CHIP	10K	5%	1/10W
DOFO	4 040 007 44	DEC CLUD	4001/	F 0/	4.44.014.4	D740	4 040 044 00	DEO OUID	470	E0/	4/40\4/
R250	1-216-097-11	RES-CHIP	100K	5%	1/10W	R742	1-216-041-00	RES-CHIP	470	5%	1/10W
R251	1-216-065-91	RES-CHIP	4.7K	5%	1/10W	R743	1-216-025-11	RES-CHIP	100	5%	1/10W
R252	1-216-025-11	RES-CHIP	100	5%	1/10W	R744	1-216-049-11	RES-CHIP	1K	5%	1/10W
R253	1-216-043-91	RES-CHIP	560	5%	1/10W	R748	1-216-081-00	RES-CHIP	22K	5%	1/10W
R255	1-216-025-11	RES-CHIP	100	5%	1/10W	R749	1-216-049-11	RES-CHIP	1K	5%	1/10W
R256	1-216-041-00	RES-CHIP	470	5%	1/10W	R754	1-216-025-11	RES-CHIP	100	5%	1/10W
R257	1-216-017-91	RES-CHIP	47	5%	1/10W	R755	1-216-025-11	RES-CHIP	100	5%	1/10W
R258	1-216-017-91	RES-CHIP	47	5%	1/10W	R756	1-216-025-11	RES-CHIP	100	5%	1/10W
R259	1-216-017-91	RES-CHIP	47	5%	1/10W	R757	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R260	1-216-037-00	RES-CHIP	330	5%	1/10W	R758	1-216-025-11	RES-CHIP	100	5%	1/10W
				-,,	.,					- , •	.,
R261	1-208-806-11	METAL CHIP	10K	0.50%	1/10W	R762	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R262	1-216-025-11	RES-CHIP	100	5%	1/10W	R763	1-216-295-91	SHORT	1.710	070	1/1011
R263	1-216-023-11	RES-CHIP	8.2K	5%	1/10W	R764	1-216-049-11	RES-CHIP	1K	5%	1/10W
R264	1-216-057-00	RES-CHIP	2.2K	5%	1/10W	R767	1-216-049-11	RES-CHIP	1K	5%	1/10W
R265	1-216-073-91	RES-CHIP	10K	5%	1/10W	R769	1-216-049-11	RES-CHIP	1K	5%	1/10W
Booc	4 040 005 04	DEO CUID	4 717	F0/	4/40\4/	5774	4.040.040.44	DEO CLUD	417	E0/	4/4014
R266	1-216-065-91	RES-CHIP	4.7K	5%	1/10W	R771	1-216-049-11	RES-CHIP	1K	5%	1/10W
R267	1-216-073-91	RES-CHIP	10K	5%	1/10W	R772	1-216-081-00	RES-CHIP	22K	5%	1/10W
R274	1-216-025-11	RES-CHIP	100	5%	1/10W	R773	1-216-081-00	RES-CHIP	22K	5%	1/10W
R275	1-216-069-00	RES-CHIP	6.8K	5%	1/10W	R774	1-216-081-00	RES-CHIP	22K	5%	1/10W

NOTE: Les composants identifies par un trame et une marque $ext{$\triangle$}$ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.



REF. NO.	PART NO.	DESCRIPTION	VAL	/ALUES		REF. NO.	PART NO.	DESCRIPTION	VALU		
R776	1-216-049-11	RES-CHIP	1K	5%	1/10W	R842	1-216-081-00	RES-CHIP	22K	5%	1/10W
R777	1-216-073-91	RES-CHIP	10K	5%	1/10W	R843	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
						R847	1-216-025-11	RES-CHIP	100	5%	1/10W
R780	1-216-073-91	RES-CHIP	10K	5%	1/10W	R848	1-216-025-11	RES-CHIP	100	5%	1/10W
R781	1-216-025-11	RES-CHIP	100	5%	1/10W	11040	1-210-025-11	NEO-OIIII	100	J /0	1/1000
R784	1-216-025-11	RES-CHIP	100	5%	1/10W	R849	1-216-295-91	SHORT			
R785	1-216-049-11	RES-CHIP	1K	5%	1/10W	R850	1-216-295-91	SHORT			
R787	1-216-121-11	RES-CHIP	1M	5%	1/10W	R851	1-216-295-91	SHORT			
R788	1-216-295-91	SHORT		0 70	1,1011	R852	1-216-049-11	RES-CHIP	1K	5%	1/10W
R789	1-216-041-00	RES-CHIP	470	5%	1/10W	R853	1-216-295-91	SHORT			
K/09	1-210-041-00	RES-UNIF	470	3%	1/1000	1.000		55			
R791	1-216-025-11	RES-CHIP	100	5%	1/10W	R854	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R792	1-216-053-00	RES-CHIP	1.5K	5%	1/10W	R856	1-216-049-11	RES-CHIP	1K	5%	1/10W
R793	1-216-053-00	RES-CHIP	1.5K	5%	1/10W	R857	1-216-025-11	RES-CHIP	100	5%	1/10W
R794	1-216-017-91	RES-CHIP	47	5%	1/10W	R858	1-216-295-91	SHORT			
R795	1-216-025-11	RES-CHIP	100	5%	1/10W	R859	1-216-295-91	SHORT			
						Doco	1 016 600 11	DEC CUID	2017	E0/	1/10\\\
R796	1-216-295-91	SHORT				R860	1-216-689-11	RES-CHIP	39K	5%	1/10W
R797	1-216-017-91	RES-CHIP	47	5%	1/10W	R861	1-216-689-11	RES-CHIP	39K	5%	1/10W
R798	1-216-057-00	RES-CHIP	2.2K	5%	1/10W	R862	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R799	1-216-049-11	RES-CHIP	1K	5%	1/10W	R863	1-216-049-11	RES-CHIP	1K	5%	1/10W
R800	1-216-057-00	RES-CHIP	2.2K	5%	1/10W	R864	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
						DOCE	4 040 005 04	CHOPT			
R801	1-216-025-11	RES-CHIP	100	5%	1/10W	R865	1-216-295-91	SHORT			
R802	1-216-057-00	RES-CHIP	2.2K	5%	1/10W	R866	1-216-295-91	SHORT			
R803	1-216-017-91	RES-CHIP	47	5%	1/10W	R867	1-216-081-00	RES-CHIP	22K	5%	1/10W
R804	1-216-037-00	RES-CHIP	330	5%	1/10W	R6001	1-216-073-91	RES-CHIP	10K	5%	1/10W
R805	1-216-037-00	RES-CHIP	330	5%	1/10W	R6002	1-249-393-11	CARBON	10	5%	1/4W
B000	4 040 007 00	DEO OLUB	000	E0/	4/40/4/	<u> </u>	1-219-776-11	CARBON	2.2M	10%	1/2W
R806	1-216-037-00	RES-CHIP	330	5%	1/10W	R6004	1-216-121-11	RES-CHIP	1M	5%	1/10W
R807	1-216-017-91	RES-CHIP	47	5%	1/10W						
R808	1-216-049-11	RES-CHIP	1K	5%	1/10W	R6006	1-220-926-11	FUSIBLE	0.47	10%	1/2W
R812	1-216-049-11	RES-CHIP	1K	5%	1/10W	R6007	1-215-481-00	METAL	330K	1%	1/4W
R813	1-216-049-11	RES-CHIP	1K	5%	1/10W	R6008	1-215-481-00	METAL	330K	1%	1/4W
R814	1-216-025-11	RES-CHIP	100	5%	1/10W	R6009	1-215-481-00	METAL	330K	1%	1/4W
R815		RES-CHIP	100		1/10W	R6010	1-249-393-11	CARBON	10	5%	1/4W
	1-216-025-11			5%		R6011	1-208-806-11	METAL CHIP	10K		1/10W
R816	1-216-025-11	RES-CHIP	100	5%	1/10W	R6012	1-216-049-11	RES-CHIP		5%	1/10W
R817	1-216-025-11	RES-CHIP	100	5%	1/10W				1K		
R818	1-216-025-11	RES-CHIP	100	5%	1/10W	R6015	1-216-049-11	RES-CHIP	1K	5%	1/10W
R819	1-216-037-00	RES-CHIP	330	5%	1/10W	R6019	1-216-073-91	RES-CHIP	10K	5%	1/10W
R822	1-216-037-00	RES-CHIP	330	5%	1/10W	R6020	1-216-049-11	RES-CHIP	1K	5%	1/10W
						R6021	1-208-798-11	METAL CHIP	4.7K		1/10W
R824	1-216-061-91	RES-CHIP	3.3K	5%	1/10W	R6022	1-208-803-11	METAL CHIP	7.5K		1/10W
R825	1-216-025-11	RES-CHIP	100	5%	1/10W						
R827	1-216-061-91	RES-CHIP	3.3K	5%	1/10W	R6025	1-249-417-11	CARBON	1K	5%	1/4W
R828	1-216-073-91	RES-CHIP	10K	5%	1/10W	R6029	1-216-105-91	RES-CHIP	220K	5%	1/10W
R829	1-216-073-91	RES-CHIP	10K	5%	1/10W	R6038	1-208-806-11	METAL CHIP	10K		1/10W
						R6039	1-208-812-11	METAL CHIP	18K		1/10W
R830	1-216-065-91	RES-CHIP	4.7K	5%	1/10W	R6040	1-208-840-11	METAL CHIP	270K		1/10W
R834	1-216-041-00	RES-CHIP	470	5%	1/10W						
R836	1-216-049-11	RES-CHIP	1K	5%	1/10W	<u> </u>	1-240-241-11	CEMENTED	0.47	5%	20W
R837	1-216-025-11	RES-CHIP	100	5%	1/10W	<u> </u>	1-240-241-11	CEMENTED	0.47	5%	20W
R838	1-216-049-11	RES-CHIP	160 1K	5%	1/10W	R6043	1-211-964-11	METAL CHIP	33		1/10W
R839			100	5% 5%	1/10W	R6044	1-249-393-11	CARBON	10	5%	1/4W
	1-216-025-11	RES-CHIP				R6046	1-216-073-91	RES-CHIP	10K	5%	1/10W
R841	1-216-033-00	RES-CHIP	220	5%	1/10W	1,0040	1 210 010 01	ALO OTHI	1011	J /0	17 10 11

NOTE: Les composants identifies par un trame et une marque 🛆 sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.



REF. NO.	PART NO.	DESCRIPTION	VALU	IES			REF. NO.	PART NO.	DESCRIPTION	VALU	ES	
R6047	1-216-041-00	RES-CHIP	470	5%	1/10W		R7054	1-216-295-91	SHORT			
R6049	1-216-363-00	METAL OXIDE	0.33	5%	2W		R7055	1-216-069-00	RES-CHIP	6.8K	5%	1/10W
							R7056	1-216-069-00	RES-CHIP	6.8K	5%	1/10W
R6050	1-216-363-00	METAL OXIDE	0.33 10	5% 5%	2W		R7058	1-249-429-11	CARBON	10K	5%	1/4W
R6051	1-249-393-11	CARBON	10	5%	1/4W		111000	1 2 10 120 11	O/ II (DOI)	1010	070	1/ 1**
R6052	1-216-073-91	RES-CHIP	10K	5%	1/10W		R7059	1-249-385-11	CARBON	2.2	5%	1/4W
R6053	1-215-907-11	METAL OXIDE	22	5%	3W		R7060	1-249-385-11	CARBON	2.2	5%	1/4W
R6055	1-216-033-00	RES-CHIP	220	5%	1/10W		R7061	1-216-295-91	SHORT			
R6056	1-208-810-11	METAL CHIP	15K		1/10W		R7063	1-216-689-11	RES-CHIP	39K	5%	1/10W
R6058	1-208-758-11	METAL CHIP	100		1/10W		R7064	1-216-049-11	RES-CHIP	1K	5%	1/10W
110000	1 200 100 11	ME II LE OTT	100	0.0070	1,1011							
R6059	1-249-417-11	CARBON	1K	5%	1/4W	1	R7065	1-216-041-00	RES-CHIP	470	5%	1/10W
R6062	1-216-295-91	SHORT					R7067	1-216-049-11	RES-CHIP	1K	5%	1/10W
R6063	1-216-073-91	RES-CHIP	10K	5%	1/10W		R7068	1-216-041-00	RES-CHIP	470	5%	1/10W
R6064	1-216-057-00	RES-CHIP	2.2K	5%	1/10W		R7070	1-216-689-11	RES-CHIP	39K	5%	1/10W
R6065	1-216-049-11	RES-CHIP	1K	5%	1/10W		R7071	1-216-121-11	RES-CHIP	1M	5%	1/10W
							D7000	1 0 1 0 1 0 0 1 1	OARRON	4017	F 0/	414041
	1-216-343-00	METAL OXIDE	0.33	5%	1W		R7083	1-249-429-11	CARBON	10K	5%	1/4W
R6067	1-216-049-11	RES-CHIP	1K	5%	1/10W		R7086	1-216-295-91	SHORT			
R6068	1-249-433-11	CARBON	22K	5%	1/4W		R7088	1-216-295-91	SHORT			
R7002	1-216-097-11	RES-CHIP	100K	5%	1/10W		R7090	1-216-089-91	RES-CHIP	47K	5%	1/10W
R7003	1-216-689-11	RES-CHIP	39K	5%	1/10W		R7091	1-216-081-00	RES-CHIP	22K	5%	1/10W
R7004	1-216-689-11	RES-CHIP	39K	5%	1/10W		R7092	1-216-025-11	RES-CHIP	100	5%	1/10W
R7005	1-216-121-11	RES-CHIP	1M	5%	1/10W		R7093	1-216-025-11	RES-CHIP	100	5%	1/10W
R7006	1-216-089-91	RES-CHIP	47K	5%	1/10W		R7094	1-216-081-00	RES-CHIP	22K	5%	1/10W
R7007	1-216-017-91	RES-CHIP	47	5%	1/10W		R7095	1-216-089-91	RES-CHIP	47K	5%	1/10W
							R7096	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R7008	1-216-085-91	RES-CHIP	33K	5%	1/10W		111000	1210 001 00	1120 01111	2.2.0	070	1, 1011
R7009	1-216-295-91	SHORT					R7097	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R7010	1-216-295-91	SHORT					R7098	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R7011	1-216-061-91	RES-CHIP	3.3K	5%	1/10W		R7099	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R7012	1-216-061-91	RES-CHIP	3.3K	5%	1/10W		R7100	1-216-081-00	RES-CHIP	22K	5%	1/10W
R7013	1-216-001-91	RES-CHIP	15K	5%	1/10W		R7101	1-216-081-00	RES-CHIP	22K	5%	1/10W
KIUIS	1-210-077-91	KES-CHIP	ISK	3%	1/1000		R7103	1-216-049-11	RES-CHIP	1K	5%	1/10W
D7044	1 040 400 44	CADDON	401/	F0/	4 / 4\ 14	1	R7104	1-216-295-91	SHORT		0,0	.,
R7014	1-249-429-11	CARBON	10K	5%	1/4W		101	1 210 200 01	OHOR			
R7015	1-249-429-11	CARBON	10K	5%	1/4W			RELAY				
R7016	1-216-073-91	RES-CHIP	10K	5%	1/10W	^						
R7017 R7018	1-216-073-91 1-216-073-91	RES-CHIP RES-CHIP	10K 10K	5% 5%	1/10W 1/10W	<u> </u>	RY6001	1-755-389-11	RELAY (AC POWER)			
17010	1-210-073-31	NEO-CHIF	TUR	J /0	1/1000			TRANSFORME	3			
R7019	1-216-073-91	RES-CHIP	10K	5%	1/10W	<u>^</u>	T6001	1-433-404-11	TRANSFORMER, LIN	JE FILTER		
R7021	1-216-049-11	RES-CHIP	1K	5%	1/10W		T6002	1-435-675-11	TRANSFORMER, ST			
R7022	1-216-073-91	RES-CHIP	10K	5%	1/10W						/DIT\	
R7023	1-249-385-11	CARBON	2.2	5%	1/4W		T6003	1-435-577-11	TRANSFORMER, CO	INVERTER	(PII)	
R7024	1-216-049-11	RES-CHIP	1K	5%	1/10W			THERMISTOR				
						\wedge	TUCOOO		THEDMOTOR BOOK	エハ/⊏		
R7025	1-216-049-11	RES-CHIP	1K	5%	1/10W	∠!\	TH6002	1-803-970-11	THERMISTOR, POS	IIVE		
R7026	1-249-385-11	CARBON	2.2	5%	1/4W			TUNER				
R7045	1-216-081-00	RES-CHIP	22K	5%	1/10W							
R7046	1-216-065-91	RES-CHIP	4.7K	5%	1/10W		TU001	8-598-501-30	TUNER, FSS BTF-FA	402		
R7047	1-216-041-00	RES-CHIP	470	5%	1/10W		TU002	8-598-542-20	TUNER, FSS BTF-W	A412		
								VARISTOR				
R7048	1-216-041-00	RES-CHIP	470	5%	1/10W			VARIOTUR				
R7051	1-216-295-91	SHORT				<u> </u>	VD6001	1-801-074-11	VARISTOR ERZV100	0271		
R7052	1-216-077-91	RES-CHIP	15K	5%	1/10W							
R7053	1-216-049-11	RES-CHIP	1K	5%	1/10W	1						

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	REF. NO.	PART NO.	DESCRIPTION	VALUE	S			REF. NO.	PART NO.	DESCRIPTION	VALUES	3	
		CRYSTAL						C9046	1-126-933-11	ELECT	100µF	20%	16V
	\/0° /		VIDDATAB ATTENDED					C9047	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
	X201 X702	1-760-895-21 1-781-931-21	VIBRATOR, CERAMIC VIBRATOR, CRYSTAL						CONNECTOR				
_							*	CN9001	1-764-333-11	PLUG,CONNECTOR 10	P		
							*	CN9002	1-766-242-11	PIN,CONNECTOR (PC	BOARD) 4P		
_ \	ノ							CN9003	1-695-915-11	TAB (CONTACT)			
								CN9004	1-695-915-11	TAB (CONTACT)			
*		A-1332-075-A	C MOUNTED PC BOAR	RD					DIODE				
		7-682-647-09	SCREW+PS 3X6					D9001	8-719-991-33	DIODE 1SS133T-77			
		CAPACITOR						D9002 D9003	8-719-400-75 8-719-991-33	DIODE MA3091-TX DIODE 1SS133T-77			
	C9001	1-126-940-11	ELECT	330µF	20%	25V		D9005	8-719-404-50	DIODE MA111-TX			
	C9001	1-120-940-11	CERAMIC CHIP	ээоµг 4рF	0.25pF			D9006	8-719-051-85	DIODE HSS83TD			
	C9002	1-163-087-00	CERAMIC CHIP	4pF	0.25pF								
	C9003	1-162-114-00	CERAMIC	0.0047µF	0.23pi	2KV		D9007	8-719-051-85	DIODE HSS83TD			
	C9005	1-163-087-00	CERAMIC CHIP	4pF	0.25pF			D9008	8-719-051-85	DIODE HSS83TD			
	03000	1 100 007 00	OLI V IVIIO OI III	трі	0.20pi	00 V		D9009	8-719-908-03	DIODE GP08DPKG23			
	C9006	1-163-217-11	CERAMIC CHIP	1pF	0.25pF	50\/		D9010	8-719-110-17	DIODE MTZJ-T-77-10			
	C9007	1-163-217-11	CERAMIC CHIP	1pF	0.25pF			D9013	8-719-991-33	DIODE 1SS133T-77			
	C9008	1-163-222-11	CERAMIC CHIP	5pF	0.25pF								
	C9009	1-163-087-00	CERAMIC CHIP	4pF	0.25pF			D9014	8-719-991-33	DIODE 1SS133T-77			
	C9010	1-163-087-00	CERAMIC CHIP	4pF	0.25pF			D9015	8-719-991-33	DIODE 1SS133T-77			
	00010	1 100 001 00	OLI WIMIO OTIII	ipi	0. 2 0pi	001		D9016	8-719-991-33	DIODE 1SS133T-77			
	C9011	1-161-830-00	CERAMIC	0.0047µF		500V		D9017	8-719-991-33	DIODE 1SS133T-77			
	C9012	1-161-830-00	CERAMIC	0.0047µF		500V			10				
	C9013	1-163-035-00	CERAMIC CHIP	0.047µF		50V			<u>IC</u>				
	C9014	1-161-830-00	CERAMIC	0.0047µF		500V		IC9001	8-759-360-83	IC TDA6111Q/N4			
	C9015	1-163-087-00	CERAMIC CHIP	4pF	0.25pF			IC9002	8-759-360-83	IC TDA6111Q/N4			
			02.00 0		o. <u>_</u> op.			IC9003	8-759-360-83	IC TDA6111Q/N4			
	C9018	1-107-961-91	ELECT	10μF	20%	250V							
	C9019	1-163-035-00	CERAMIC CHIP	0.047µF		50V			<u>JACK</u>				
	C9020	1-107-961-91	ELECT	10μF [']	20%	250V	<u>^</u>	J9001	1-451-470-21	SOCKET, CRT			
	C9021	1-107-961-91	ELECT	10µF	20%	250V	Z:\	J3001	1-431-470-21	SOURLI, CIVI			
	C9022	1-101-004-00	CERAMIC	0.01µF		50V			COIL				
	C9023	1-101-004-00	CERAMIC	0.01µF		50V		L9002	1-408-591-11	INDUCTOR	1µH		
	C9024	1-163-035-00	CERAMIC CHIP	0.01μ1 0.047μF		50V		L9003	1-408-591-11	INDUCTOR	1μH		
	C9025	1-104-653-11	ELECT	220μF	20%	16V		L9004	1-408-591-11	INDUCTOR	1μH		
	C9026	1-163-035-00	CERAMIC CHIP	0.047μF	20 /0	50V		L9005	1-406-666-21	INDUCTOR	150µH		
	C9027	1-101-004-00	CERAMIC	0.047μ1 0.01μF		50V		L9006	1-412-525-31	INDUCTOR	10µH		
	00021	1 101 004 00	OLI V WIIIO	0.01μ1		00 V			TRANSISTOR				
	C9028	1-163-017-00	CERAMIC CHIP	0.0047µF	10%	50V			INANSISTON				
	C9029	1-163-017-00	CERAMIC CHIP	0.0047µF		50V		Q9001	8-729-424-02	TRANSISTOR 2SB709A	-QRS-TX		
	C9030	1-163-017-00	CERAMIC CHIP	0.0047µF		50V		Q9002	8-729-423-33	TRANSISTOR 2SC3311	A-QRSTA		
	C9031	1-162-116-00	CERAMIC	680pF	10%	2KV		Q9003	8-729-422-27	TRANSISTOR 2SD601A	A-QRS-TX		
	C9032	1-162-116-00	CERAMIC	680pF	10%	2KV		Q9004	8-729-422-27	TRANSISTOR 2SD601A	A-QRS-TX		
								Q9005	8-729-422-27	TRANSISTOR 2SD601A	A-QRS-TX		
	C9033	1-107-662-11	ELECT	22µF	20%	250V							
	C9035	1-126-933-11	ELECT	100µF	20%	16V		Q9008	8-729-423-33	TRANSISTOR 2SC3311	A-QRSTA		
	C9036	1-126-964-11	ELECT	10µF	20%	50V		Q9009	8-729-424-02	TRANSISTOR 2SB709A	N-QRS-TX		
				•				Q9010	8-729-424-02	TRANSISTOR 2SB709A	N-QRS-TX		
	C9037	1-126-961-11	ELECT	2.2µF	20%	50V		Q9011	8-729-424-02	TRANSISTOR 2SB709A	N-QRS-TX		
	C9038	1-126-963-11	ELECT	4.7µF	20%	50V		Q9012	8-729-423-33	TRANSISTOR 2SC3311	A-QRSTA		
	C9042	1-126-940-11	ELECT	330µF	20%	25V		Q9014	8-729-823-81	TRANSISTOR 2SC4632	LS-CB7		



REF. NO.	PART NO.	DESCRIPTION	VALU	ES			REF. NO.	PART NO.	DESCRIPTION	VALUE	S	
	RESISTOR						R9070	1-249-411-11	CARBON	330	5%	1/4W
	KEOIOTOK						R9071	1-249-411-11	CARBON	330	5%	1/4W
R9001	1-216-077-91	RES-CHIP	15K	5%	1/10W		R9072	1-249-411-11	CARBON	330	5%	1/4W
R9004	1-249-428-11	CARBON	8.2K	5%	1/4W		R9073	1-216-049-11	RES-CHIP	1K	5%	1/10W
R9005	1-249-421-11	CARBON	2.2K	5%	1/4W		R9076	1-219-769-11	CARBON	3.3M	5%	1/2W
R9006	1-249-429-11	CARBON	10K	5%	1/4W		K9070	1-219-709-11	CARDON	J.JIVI	370	1/200
R9007	1-208-789-11	METAL CHIP	2K		1/10W		R9077	1-249-417-11	CARBON	1K	5%	1/4W
							R9077	1-249-417-11			5%	1/4VV 1/4W
R9008	1-216-085-91	RES-CHIP	33K	5%	1/10W				CARBON	6.8K		
R9009	1-249-429-11	CARBON	10K	5%	1/4W		R9079	1-249-426-11	CARBON	5.6K	5%	1/4W
R9010	1-249-429-11	CARBON	10K	5%	1/4W		R9081	1-247-843-11	CARBON	3.3K	5%	1/4W
R9012	1-249-417-11	CARBON	1K	5%	1/4W		R9083	1-249-436-11	CARBON	39K	5%	1/4W
R9013	1-216-049-11	RES-CHIP	1K	5%	1/10W		D0004	1 000 100 01	OADDON	4001/	- 0/	4/014/
				0,0	.,		R9084	1-260-126-81	CARBON	180K	5%	1/2W
R9014	1-249-409-11	CARBON	220	5%	1/4W		R9085	1-260-126-81	CARBON	180K	5%	1/2W
R9015	1-249-409-11	CARBON	220	5%	1/4W		R9089	1-215-445-00	METAL	10K	1%	1/4W
R9016	1-249-409-11	CARBON	220	5%	1/4W		R9091	1-215-429-00	METAL	2.2K	1%	1/4W
R9018	1-216-065-91	RES-CHIP	4.7K	5%	1/10W			VARIABLE RES	ISTOR			
R9019	1-216-063-91	RES-CHIP	3.9K	5%	1/10W			VANIABLE INLO	<u>ioroit</u>			
113013	1-210-003-31	INLO-OF III	5.511	J /0	1/1044		RV9001	1-241-714-11	RES, ADJ, METAL FILM	110M		
R9026	1-208-789-11	METAL CHIP	2K	0 500/	1/10W		RV9002	1-241-788-11	RES, ADJ, CARBON	100K		
R9031	1-208-789-11	METAL CHIP	2K		1/10W							
R9033	1-215-447-00	METAL	2K 12K	1%	1/10VV 1/4W			7				
R9034		METAL	5.6K	1%	1/4VV 1/4W	ш)H					
	1-215-439-00					╽╚	<u> </u>					
R9035	1-208-790-11	METAL CHIP	2.2K	0.50%	1/10W							
R9036	1-216-049-11	RES-CHIP	1K	5%	1/10W	*		A-1333-142-A	DH MOUNTED PC BOA	RD		
R9037	1-240-233-71	METAL OXIDE	100	5%	3W			CARACITOR				
R9038	1-208-790-11	METAL CHIP	2.2K		1/10W			CAPACITOR				
R9039	1-208-790-11	METAL CHIP	2.2K		1/10W		C5801	1-126-964-11	ELECT	10μF	20%	50V
R9041	1-216-049-11	RES-CHIP	1K	5%	1/10W		C5804	1-102-129-00	CERAMIC	0.01µF	10%	50V
1100+1	1 210 040 11	INLO OF III	IIX	0 /0	1/1044		C5805	1-126-964-11	ELECT	10μF	20%	50V
R9042	1-216-049-11	RES-CHIP	1K	5%	1/10W		C5807	1-102-129-00	CERAMIC	0.01µF	10%	50V
R9043	1-240-233-71	METAL OXIDE	100	5%	3W		C5816	1-126-964-11	ELECT	10μF	20%	50V
R9044	1-240-233-71	METAL OXIDE	100	5%	3W		00010	1 120 001 11		1041	2070	001
R9047	1-202-557-00	SOLID	220	20%	1/2W		C5819	1-126-960-11	ELECT	1μF	20%	50V
R9048	1-216-049-11	RES-CHIP	1K	5%	1/10W		C5822	1-136-165-00	FILM	0.1µF	5%	50V
113040	1 210 040 11	INLO OF III	IIX	0 /0	1/1044		C5861	1-126-964-11	ELECT	10μF	20%	50V
R9049	1-216-049-11	RES-CHIP	1K	5%	1/10W		00001	1 120 001 11	LLLOT	ТОРТ	2070	001
R9050	1-249-424-11	CARBON	3.9K	5%	1/4W		C5862	1-102-129-00	CERAMIC	0.01µF	10%	50V
R9051	1-202-557-00	SOLID	220	20%	1/2W		C5863	1-126-964-11	ELECT	10μF	20%	50V
R9052	1-202-557-00	SOLID	220	20%	1/2W		C5865	1-126-960-11	ELECT	1μF	20%	50V
R9053	1-249-424-11	CARBON	3.9K	5%	1/4W		C5866	1-102-129-00	CERAMIC	0.01µF	10%	50V
113000	1-243-424-11	CARDON	5.510	J /0	1/ 1 V V		C5868	1-136-165-00	FILM	0.01µF	5%	50V
R9054	1-249-424-11	CARBON	3.9K	5%	1/4W		00000	1 100 100 00	I ILIVI	υ. τμι	070	001
R9055	1-260-126-81	CARBON	180K	5%	1/2W			CONNECTOR				
R9056	1-202-549-00	SOLID	1001	20%	1/2W	*	0115000	4 504 500 44	DI LIO CONNECTOD ED			
R9057	1-202-847-00	SOLID	560K	20%	1/2W	*	CN5802	1-564-508-11	PLUG, CONNECTOR 5P			
R9059	1-202-818-00	SOLID	1K	20%	1/2W	*	CN5803	1-564-507-11	PLUG, CONNECTOR 4P			
113000	1-202-010-00	OOLID	Ш	20 /0	1/244	· *	CN5861	1-564-506-11	PLUG, CONNECTOR 3P			
R9061	1-202-549-00	SOLID	100	20%	1/2W		CN5862	1-564-506-11	PLUG,CONNECTOR 3P			
R9062	1-260-123-11	CARBON	100K	5%	1/2W			DIODE				
R9063	1-260-123-11	CARBON	100K	5%	1/2W							
R9064	1-260-126-81	CARBON	180K	5%	1/2W		D5805	8-719-991-33	DIODE 1SS133T-77			
R9065	1-249-425-11	CARBON	4.7K	5%	1/4W		D5860	8-719-991-33	DIODE 1SS133T-77			
R9067	1-219-769-11	CARBON	3.3M	5%	1/2W							
R9068	1-216-101-00	RES-CHIP	150K	5%	1/10W							
		- 44 555										

NOTE: Les composants identifies par un trame et une marque $ext{$\triangle$}$ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.



REF. NO.	PART NO.	DESCRIPTION	VALUI	ES		REF. NO.	PART NO.	DESCRIPTION	VALUE	S	
	<u>IC</u>					R5862	1-249-417-11	CARBON	1K	5%	1/4W
105005	0.750.000.00	10 1 40540				R5863	1-249-417-11	CARBON	1K	5%	1/4W
IC5805	8-759-822-38	IC LA6510				R5864	1-215-413-00	METAL	470	1%	1/4W
IC5861	8-759-822-38	IC LA6510	MILLOAD			R5865	1-249-429-11	CARBON	10K	5%	1/4W
IC5870	1-418-473-11	SENSOR, MAGNETIC	MIU-212			1,0000	1 2 10 120 11	57 ii 12 6 11	1011	0 70	.,
	TRANSISTOR					R5867	1-249-417-11	CARBON	1K	5%	1/4W
						R5868	1-249-429-11	CARBON	10K	5%	1/4W
Q5807	8-729-423-33	TRANSISTOR 2SC3311				R5869	1-249-429-11	CARBON	10K	5%	1/4W
Q5808	8-729-423-33	TRANSISTOR 2SC3311				R5871	1-249-411-11	CARBON	330	5%	1/4W
Q5809	8-729-423-33	TRANSISTOR 2SC3311				R5873	1-249-441-11	CARBON	100K	5%	1/4W
Q5810	8-729-119-76	TRANSISTOR 2SA1309									
Q5811	8-729-423-33	TRANSISTOR 2SC3311	A-QRSTA			R5874	1-249-437-11	CARBON	47K	5%	1/4W
0-010						R5876	1-249-425-11	CARBON	4.7K	5%	1/4W
Q5812	8-729-423-33	TRANSISTOR 2SC3311				R5877	1-247-883-00	CARBON	150K	5%	1/4W
Q5860	8-729-119-76	TRANSISTOR 2SA1309				R5878	1-249-425-11	CARBON	4.7K	5%	1/4W
Q5861	8-729-423-33	TRANSISTOR 2SC3311									
Q5862	8-729-423-33	TRANSISTOR 2SC3311				R5879	1-249-417-11	CARBON	1K	5%	1/4W
Q5863	8-729-423-33	TRANSISTOR 2SC3311				R5882	1-249-377-11	CARBON	0.47	5%	1/4W
Q5864	8-729-423-33	TRANSISTOR 2SC3311				R5883	1-249-377-11	CARBON	0.47	5%	1/4W
Q5865	8-729-423-33	TRANSISTOR 2SC3311	A-QRSTA			R5884	1-249-395-11	CARBON	15	5%	1/4W
	RESISTOR					R5885	1-249-377-11	CARBON	0.47	5%	1/4W
						R5886	1-249-385-11	CARBON	2.2	5%	1/4W
R5802	1-249-417-11	CARBON	1K	5%	1/4W		OWITOU				
R5803	1-249-417-11	CARBON	1K	5%	1/4W		<u>SWITCH</u>				
R5804	1-249-429-11	CARBON	10K	5%	1/4W	S5001	1-572-707-11	SWITCH LEVER			
R5805	1-249-430-11	CARBON	12K	5%	1/4W			• • • • • • • • • • • • • • • • • • • •			
R5807	1-215-413-00	METAL	470	1%	1/4W						
R5808	1-247-883-00	CARBON	150K	5%	1/4W						
R5809	1-249-437-11	CARBON	47K	5%	1/4W						
R5810	1-249-425-11	CARBON	4.7K	5%	1/4W	*	A-1348-122-A	D COMPLETE PC BC	ARD		
R5811	1-249-437-11	CARBON	47K	5%	1/4W						
R5812	1-249-437-11	CARBON	47K	5%	1/4W		the high-voltage	leads associated with the	FBT on the D) Board	are not
								st be ordered separately.			
R5813	1-249-437-11	CARBON	47K	5%	1/4W		requesting this D			ŭ	
R5814	1-249-411-11	CARBON	330	5%	1/4W						
R5815	1-249-437-11	CARBON	47K	5%	1/4W	<u>^</u>	1-251-715-32	HV CAP ASSY LEAD			
R5816	1-249-437-11	CARBON	47K	5%	1/4W	<u>^</u>	1-900-805-19	FOCUS LEAD			
R5817	1-249-437-11	CARBON	47K	5%	1/4W						
DE040	1 040 407 44	CADDON	171/	E0/	4 / 4\ 14		3-710-578-01	COVER, VOLUME, 6 I	MOLD		
R5818	1-249-437-11	CARBON	47K 47K	5% 5%	1/4W		4-382-854-01	SCREW (M3X8), P, S	. ,		
R5819 R5823	1-249-437-11	CARBON CARBON	47K 15	5% 5%	1/4W 1/4W		4-382-854-21	SCREW (M3X14), P, S	SW (+)		
	1-249-395-11 1-249-417-11		15 1K	5%			CARACITOR				
R5825		CARBON			1/4W		CAPACITOR				
R5828	1-249-377-11	CARBON	0.47	5%	1/4W	C5001	1-164-161-11	CERAMIC CHIP	0.0022µF	10%	50V
R5839	1-249-429-11	CARBON	10K	5%	1/4W	C5002	1-106-383-00	MYLAR	0.047µF	10%	200V
		CARBON	4.7K			C5004	1-106-383-00	MYLAR	0.047µF	10%	200V
R5845 R5846	1-249-425-11		4.7K 1K	5% 5%	1/4W	C5005	1-126-235-11	ELECT	100µF	20%	6.3V
	1-249-417-11 1-247-807-31	CARBON			1/4W	C5006	1-126-964-11	ELECT	10µF	20%	50V
R5847		CARBON	100	5%	1/4W				- P	/ •	
R5848	1-249-417-11	CARBON	1K	5%	1/4W	C5007	1-126-941-11	ELECT	470µF	20%	25V
DEONO	1 2/0 277 44	CADRON	0.47	E0/	1//\/	C5008	1-126-940-11	ELECT	330µF	20%	25V
R5849	1-249-377-11	CARBON	0.47	5% 5%	1/4W	C5009	1-126-941-11	ELECT	470µF	20%	25V
R5852	1-249-441-11	CARBON	100K		1/4W	C5011	1-107-641-11	ELECT	220µF	20%	160V
R5854	1-249-429-11	CARBON	10K	5%	1/4W	C5012	1-163-017-00	CERAMIC CHIP	0.0047µF		50V
R5860	1-247-807-31	CARBON	100	5%	1/4W	C5013	1-164-161-11	CERAMIC CHIP	0.0022µF		50V
R5861	1-249-417-11	CARBON	1K	5%	1/4W	1			· · · ·		



REF. NO.	PART NO.	DESCRIPTION	VALUES	3			REF. NO.	PART NO.	DESCRIPTION	VALUES	S	
05045	4 407 004 44	FLECT	4000	200/	401/		C5072	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C5015 C5016	1-107-884-11	ELECT	1000µF	20% 5%	16V 50V		C5073	1-164-161-11	CERAMIC CHIP	0.0022µF		50V
	1-136-171-00	FILM	0.33µF		50V 50V							
C5017	1-115-185-11	CERAMIC CHIP	0.033µF	10%			C5075	1-115-339-11	CERAMIC CHIP	0.1µF	10%	50V
C5018	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V		C5076	1-115-339-11	CERAMIC CHIP	0.1µF	10%	50V
05040	4 400 000 44	FLEOT	400 5	000/	E01 /	1	C5077	1-115-339-11	CERAMIC CHIP	0.1µF	10%	50V
C5019	1-126-968-11	ELECT	100µF	20%	50V		C5079	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V
C5020	1-126-767-11	ELECT	1000µF	20%	16V	1	C5080	1-137-372-11	MYLAR	0.022µF	5%	50V
C5021	1-163-133-00	CERAMIC CHIP	470pF	5%	50V		C5081	1-137-372-11	MYLAR	0.022µF	5%	50V
C5022	1-137-368-11	MYLAR	0.0047µF		50V		C5102	1-107-888-11	ELECT	0.022μ1 47μF	20%	25V
C5023	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V		03102	1-107-000-11	LLLOT	41μι	20 /0	237
C5024	1-102-038-00	CERAMIC	0.001µF	500V		1	C5501	1-107-888-11	ELECT	47µF	20%	25V
							C5501	1-107-000-11	ELECT	47μr 470μF	20%	25V 25V
C5025	1-130-471-00	MYLAR	0.001µF	5%	50V	1						
C5026	1-107-655-11	ELECT	47µF	20%	250V	1	C5503	1-104-665-11	ELECT	100µF	20%	25V
C5027	1-126-963-11	ELECT	4.7µF	20%	50V	1	C5504	1-126-947-11	ELECT	47µF	20%	16V
C5028	1-126-963-11	ELECT	4.7µF	20%	50V		C5505	1-126-964-11	ELECT	10μF	20%	50V
C5030	1-136-153-00	FILM	0.01µF	5%	50V	1						
						1	C5506	1-126-963-11	ELECT	4.7µF	20%	50V
C5031	1-163-011-11	CERAMIC CHIP	0.0015µF	10%	50V		C5507	1-163-141-00	CERAMIC CHIP	0.001µF	5%	50V
C5032	1-104-760-11	CERAMIC CHIP	0.047µF	10%	50V		C5508	1-163-031-91	CERAMIC CHIP	0.01µF		50V
C5033	1-136-165-00	FILM	0.1µF	5%	50V		C5509	1-163-263-11	CERAMIC CHIP	330pF	5%	50V
C5034	1-162-114-00	CERAMIC		2KV			C5511	1-126-933-11	ELECT	100μF	20%	16V
C5035	1-126-933-11	ELECT	100µF	20%	16V	1						
00000	1 120 000 11	22201	ισομι	2070	101	1	C5514	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C5036	1-126-941-11	ELECT	470µF	20%	25V		C5518	1-129-709-61	FILM	0.0039µF	5%	630V
C5037	1-107-670-11	ELECT	470μΓ 10μF	20%	400V		C5519	1-104-760-11	CERAMIC CHIP	0.047µF	10%	50V
C5038	1-126-947-11	ELECT	47μF	20%	16V		C5522	1-163-275-11	CERAMIC CHIP	0.001µF	5%	50V
C5040	1-126-935-11	ELECT	470μF	20%	16V		C5531	1-136-165-00	FILM	0.1µF	5%	50V
C5040	1-126-935-11	ELECT	470μF	20%	16V							
03041	1-120-955-11	ELECT	47 0µ1	20 /0	10 V		C5533	1-137-366-11	MYLAR	0.0022µF	5%	50V
CE042	1-126-767-11	FLECT	1000	20%	16V	1	C5542	1-164-182-11	CERAMIC CHIP	0.0033µF		50V
C5043 C5044		ELECT CERAMIC CHIP	1000μF	20%	50V		C5548	1-137-194-81	FILM	0.47µF	5%	50V
	1-165-319-11 1-165-319-11		0.1µF		50V 50V		C5550	1-129-716-00	FILM	0.015µF	5%	200V
C5045		CERAMIC CHIP	0.1µF			1	C5576	1-104-666-11	ELECT	220µF	20%	25V
C5046	1-163-025-11 1-163-025-11	CERAMIC CHIP	0.001µF		50V	1						
C5047	1-103-020-11	CERAMIC CHIP	0.001µF		50V		C5577	1-104-666-11	ELECT	220µF	20%	25V
05040	4 402 000 04	CEDAMIC CLUD	0.004	400/	E01/		C5587	1-104-760-11	CERAMIC CHIP	0.047µF	10%	50V
C5049	1-163-009-91	CERAMIC CHIP	0.001µF	10%	50V		C5588	1-136-153-00	FILM	0.01µF	5%	50V
C5050	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V	1	C5590	1-163-263-11	CERAMIC CHIP	330pF	5%	50V
C5051	1-115-339-11	CERAMIC CHIP	0.1µF	10%	50V		C5592	1-115-339-11	CERAMIC CHIP	0.1µF	10%	50V
C5052	1-115-339-11	CERAMIC CHIP	0.1µF	10%	50V				00	01. p.	, ,	
C5053	1-107-372-11	MYLAR	0.22µF	10%	200V		C5594	1-136-165-00	FILM	0.1µF	5%	50V
		.==		400/		1	C5596	1-126-960-11	ELECT	1μF	20%	50V
C5056	1-162-318-11	CERAMIC	0.001µF	10%	500V		C5598	1-126-947-11	ELECT	47µF	20%	16V
C5057	1-162-134-11	CERAMIC	470pF	10%	2KV		C5600	1-126-947-11	ELECT	47μF	20%	16V
C5058	1-162-116-00	CERAMIC	680pF	10%	2KV	1	C5601	1-136-165-00	FILM	47μF	5%	50V
C5059	1-162-116-00	CERAMIC	680pF	10%	2KV		03001	1-130-103-00	I ILIVI	υ. ιμι	J /0	J0 V
C5060	1-137-417-11	MYLAR	0.0047µF	10%	200V		C5602	1 126 047 11	ELECT	47uE	20%	16V
						1		1-126-947-11		47µF		
C5061	1-117-839-11	FILM	9100pF	3%	1.5KV		C5603	1-163-017-00	CERAMIC CHIP	0.0047μF	10%	50V
C5063	1-117-839-11	FILM	9100pF	3%	1.5KV	1	C5605	1-136-177-00	FILM	1μF	5%	50V
C5064	1-115-520-11	FILM	0.68µF	5%	250V		C5607	1-115-185-11	CERAMIC CHIP	0.033µF	10%	50V
C5065	1-107-506-11	FILM	0.68µF	3%	400V		C5609	1-104-665-11	ELECT	100µF	20%	25V
C5066	1-109-921-11	CERAMIC	0.0015µF	10%	500V		05040	4 400 005 11	FLEOT	/ 7 0 =	0001	4017
C5069	1-115-339-11	CERAMIC CHIP	0.1µF	10%	50V		C5610	1-126-935-11	ELECT	470µF	20%	16V
C5070	1-115-339-11	CERAMIC CHIP	0.1µF	10%	50V		C5611	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C5071	1-115-339-11	CERAMIC CHIP	0.1µF	10%	50V		C5612	1-126-964-11	ELECT	10µF	20%	50V
							C5613	1-115-185-11	CERAMIC CHIP	0.033µF	10%	50V

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REF. NO.	PART NO.	DESCRIPTION	VALUE	S			REF. NO.	PART NO.	DESCRIPTION	VALUE	S	
C5614	1-126-964-11	ELECT	10μF	20%	50V		C8013	1-126-964-11	ELECT	10μF	20%	50V
C5616	1-136-165-00	FILM	0.1μF	5%	50V		C8014	1-126-964-11	ELECT	10µF	20%	50V
							C8015	1-126-966-11	ELECT	33µF	20%	50V
C5617	1-126-947-11	ELECT	47µF	20%	16V		C8016	1-130-495-00	MYLAR	0.1μF	5%	50V
C5618	1-136-171-00	FILM	0.33µF	5%	50V		C8017		ELECT		20%	50V
C5619	1-163-127-00	CERAMIC CHIP	270pF	5%	50V		G0017	1-126-964-11	ELECT	10μF	20%	30V
C5621	1-136-165-00	FILM	0.1µF	5%	50V		C8018	1-126-964-11	ELECT	10µF	20%	50V
C5623	1-126-933-11	ELECT	100µF	20%	16V		C8019	1-104-665-11	ELECT	100µF	20%	10V
C5625	1-163-251-11	CERAMIC CHIP	100pF	5%	50V		C8020	1-136-103-00	FILM	0.1µF	5%	200V
C5628	1-126-933-11	ELECT	100µF	20%	16V		C8021	1-137-150-11	MYLAR	0.01µF	5%	50V
C6503	1-131-940-11	ELECT	1200µF	20%	250V		C8022	1-126-933-11	ELECT	100µF	20%	16V
C6504	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V		C8023	1-113-611-11	ELECT(BLOCK)	820µF	20%	250V
C6507	1-126-967-11	ELECT	47μF	20%	50V		C8024	1-126-967-11	ELECT	47μF	20%	50V
							C8025	1-126-947-11	ELECT	47µF	20%	25V
C6508	1-126-947-11	ELECT	47μF	20%	25V		C8027	1-130-495-00	MYLAR	0.1µF	5%	50V
C6510	1-130-495-00	MYLAR	0.1µF	5%	50V		00021	1-100-430-00	WITEAN	υ. τμι	J /0	30 V
C6511	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V		C8028	1-164-161-11	CERAMIC CHIP	0.0022µF		50V
C6516	1-163-009-91	CERAMIC CHIP	0.001µF	10%	50V		C8030	1-163-809-11	CERAMIC CHIP	0.047µF	10%	25V
C6517	1-126-963-11	ELECT	4.7µF	20%	50V		C8031	1-128-551-11	ELECT	22µF	20%	25V
C6518	1-136-479-11	FILM	0.001µF	2%	50V		C8032	1-136-813-11	FILM	680pF	2%	50V
C6519	1-126-964-11	ELECT	10μF [']	20%	50V		C8033	1-126-964-11	ELECT	10μF	20%	50V
C6525	1-164-143-11	CERAMIC	0.001µF	10%	1KV		C8035	1-125-969-91	CERAMIC	680pF	10%	1KV
C6526	1-164-143-11	CERAMIC	0.001µF	10%	1KV		C8036	1-125-969-91	CERAMIC	680pF	10%	1KV
C6532		FILM		3%	800V		C8037	1-135-946-21	FILM	47000pF	3%	800V
	1-135-998-21		56000pF		0007		C8039	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C6544	1-107-855-12	ELECT(BLOCK)	330µF	160V	0=1/		C8040	1-126-969-11	ELECT	220µF	20%	50V
C6545	1-126-943-11	ELECT	2200µF	20%	25V		C0040	1-120-303-11	LLLOT	ΖΖΟμΓ	20 /0	30 V
C6546	1-128-548-11	ELECT	4700µF	20%	25V		C8041	1-137-194-81	FILM	0.47µF	5%	50V
C6547	1-113-610-11	ELECT(BLOCK)	220µF	20%	250V		C8042	1-136-103-00	FILM	0.1µF	5%	200V
C6548	1-128-549-11	ELECT	3300µF	20%	35V		C8045	1-130-471-00	MYLAR	0.001µF	5%	50V
C6551	1-163-037-11	CERAMIC CHIP	0.022µF	10%	50V		C8046	1-162-131-11	CERAMIC	220pF	10%	2KV
					50V		C8047	1-107-444-11	CERAMIC	100pF	10%	2KV
C6561	1-126-960-11	ELECT	1µF	20%	30V		00011		02. u umo			
<u> </u>	1-136-344-11	MYLAR	0.047µF	20%	125V		C8048	1-130-495-00	MYLAR	0.1µF	5%	50V
⚠ C6585	1-119-899-51	CERAMIC	1000pF	10%	250V		C8050	1-129-718-61	FILM	0.022µF	5%	630V
C6586	1-113-924-11	CERAMIC	0.0047µF		125V		C8051	1-126-964-11	ELECT	10µF	20%	50V
C6587	1-113-924-11	CERAMIC	0.0047µF	20%	125V		C8053	1-162-117-00	CERAMIC	100pF	10%	500V
C6588	1-113-924-11	CERAMIC	0.0047µF	20%	125V		C8054	1-102-244-00	CERAMIC	220pF	10%	500V
C6589	1-113-924-11	CERAMIC	0.0047µF	20%	125V		C8055	1-136-535-61	FILM	0.0018µF		630V
C6590	1-131-940-11	ELECT	1200µF	20%	250V		C8056	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
⚠ C6591	1-119-899-51	CERAMIC	1000pF	10%	250V		C8058	1-137-194-81	FILM	0.47µF	5%	50V
C6594	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V		C8059	1-126-947-11	ELECT	47µF	20%	10V
C6595	1-104-665-11	ELECT	100μF	20%	25V		C8060	1-107-635-11	ELECT	4.7µF	20%	160V
00090	1-104-003-11	LLLOI	ισομι	20 /0	257		C8063	1-135-945-21	FILM	10000pF		800V
C6596	1-126-960-11	ELECT	1µF	20%	50V			CONNECTOR				
C8002	1-136-169-00	FILM	0.22µF	5%	50V							
C8004	1-104-665-11	ELECT	100µF	20%	10V	*	CN5002	1-580-798-11	CONNECTOR PIN (DY			
C8005	1-126-947-11	ELECT	47µF	20%	25V	*	CN5003	1-766-242-11	PIN,CONNECTOR (PC	BOARD) 4F)	
C8006	1-126-960-11	ELECT	1µF	20%	50V	*	CN5501	1-779-889-11	CONNECTOR, BOARD			
C8007	1-137-150-11	MYLAR	0.01µF	5%	50V	*	CN5503 CN5505	1-779-890-11 1-779-890-11	CONNECTOR, BOARD CONNECTOR, BOARD			
C8009	1-137-130-11	ELECT	0.01μ1 10μF	20%	50V		CN5505	1-573-979-21	CONNECTOR, BOARD			
C8011	1-126-961-11	ELECT	2.2μF	20%	50V	*					HIF	
C8011							CN5509	1-564-515-11	PLUG,CONNECTOR 12	4F		
U0012	1-126-966-11	ELECT	33µF	20%	50V	ı						



	REF. NO.	PART NO.	DESCRIPTION	VALUES	REF. NO.	PART NO.	DESCRIPTION	VALUES
*	CN5510	1-564-506-11	PLUG.CONNECTOR 3P		D5523	8-719-923-78	DIODE MTZJ-T-77-12	_
*	CN6501	1-766-176-11	PIN,CONNECTOR (PC B	OVDD/ 8D	D6501	8-719-404-50	DIODE MA111-TX	
*					D6502	8-719-979-64	DIODE µF4005PKG23	
	CN6502	1-766-240-11	PIN,CONNECTOR (PC B	UARD) 2P	D6507	1-216-295-91	SHORT	
*	0110500	4 504 544 44	DILLO CONNECTOD OD		D6508	8-719-982-27	DIODE MTZJ-T-77-33C	
	CN6503	1-564-511-11	PLUG,CONNECTOR 8P		D6509	8-719-068-00	DIODE ERC04-06SE	
*	CN6504	1-779-889-11	CONNECTOR, BOARD T		D6509		DIODE ERC04-06SE	
*	CN6505	1-779-889-11	CONNECTOR, BOARD T			8-719-068-00		
*	CN6506	1-779-889-11	CONNECTOR, BOARD T	O BOARD 8P	D6513	8-719-500-71	DIODE DACRES F	
		DIODE			D6514	8-719-060-89	DIODE D4SBS6-F	
		DIODE			D0545	0.740.000.00	DIODE COLOGE	
	D5001	8-719-109-85	DIODE MTZJ-T-77-5.1B		D6515	8-719-060-90	DIODE S2L60F	
	D5002	8-719-908-03	DIODE GP08DPKG23		D6516	8-719-060-89	DIODE D4SBS6-F	
	D5003	8-719-920-67	DIODE ERC91-02E		D6517	8-719-060-90	DIODE S2L60F	
	D5004	8-719-158-49	DIODE UDZ-TE-17-12B		D6522	8-719-404-50	DIODE MA111-TX	
	D5005	8-719-404-50	DIODE MA111-TX		D6530	8-719-022-99	DIODE D6SB60L	
	50000	0 1 10 10 100	DIODE IIII (TTT TX					
	D5006	8-719-109-72	DIODE MTZJ-T-77-3.9B		D6531	8-719-404-50	DIODE MA111-TX	
	D5000	8-719-109-72	DIODE RD2.0ES-T1B1		D6532	8-719-948-45	DIODE ERA22-08TP3	
	D5007	8-719-404-50	DIODE MA111-TX		D6533	8-719-404-50	DIODE MA111-TX	
	D5000	8-719-404-50	DIODE MA111-TX		D6537	8-719-404-50	DIODE MA111-TX	
	D5009 D5010	8-719-404-50	DIODE MA111-TX		D8002	8-719-404-50	DIODE MA111-TX	
	D3010	0-7 19-404-30	DIODE MATTI-TA					
	DE044	0.740.400.00	DIODE DD2 0E0 T4D2		D8003	8-719-404-50	DIODE MA111-TX	
	D5011	8-719-109-63	DIODE RODO 20EL COO	4	D8004	8-719-109-85	DIODE MTZJ-T-77-5.1B	
	D5012	8-719-018-82	DIODE RGP02-20EL-639	4	D8005	8-719-404-50	DIODE MA111-TX	
	D5013	8-719-302-43	DIODE RGP10GPKG23		D8006	8-719-921-89	DIODE MTZJ-T-77-13C	
	D5014	8-719-510-37	DIODE D5LC20U		D8007	8-719-404-50	DIODE MA111-TX	
	D5015	8-719-302-43	DIODE RGP10GPKG23					
	D = 0.40	0.740.000.07	DIODE EDOM ONE		D8009	8-719-404-50	DIODE MA111-TX	
	D5016	8-719-920-67	DIODE ERC91-02E		D8010	8-719-052-90	DIODE D1NL40-TA2	
	D5017	8-719-920-67	DIODE ERC91-02E		D8013	8-719-063-70	DIODE D1NL20U-TA2	
	D5018	8-719-110-41	DIODE MTZJ-T-77-15B		D8014	8-719-302-43	DIODE RGP10GPKG23	
	D5019	8-719-404-50	DIODE MA111-TX		D8016	8-719-948-45	DIODE ERA22-08TP3	
	D5021	8-719-404-50	DIODE MA111-TX					
					D8017	8-719-948-45	DIODE ERA22-08TP3	
	D5023	8-719-061-21	DIODE PG124S15		D8018	8-719-052-90	DIODE D1NL40-TA2	
	D5024	8-719-510-02	DIODE D1NS4-TR		D8019	8-719-110-41	DIODE MTZJ-T-77-15B	
	D5025	8-719-510-02	DIODE D1NS4-TR		D8020	8-719-404-50	DIODE MA111-TX	
	D5026	8-719-404-50	DIODE MA111-TX		D8021	8-719-404-50	DIODE MA111-TX	
	D5027	8-719-404-50	DIODE MA111-TX					
					D8022	8-719-404-50	DIODE MA111-TX	
	D5028	8-719-404-50	DIODE MA111-TX		D8025	8-719-982-26	DIODE MTZJ-T-77-33B	
	D5029	8-719-404-50	DIODE MA111-TX		D8026	8-719-404-50	DIODE MA111-TX	
	D5031	8-719-977-28	DIODE UDZSTE-1710B		D8027	8-719-404-50	DIODE MA111-TX	
	D5032	8-719-404-50	DIODE MA111-TX		D8027	8-719-991-33	DIODE 1SS133T-77	
	D5501	8-719-404-50	DIODE MA111-TX		D8050	8-719-923-86	DIODE MTZJ-T-77-15	
					D8051	8-719-923-86	DIODE MTZJ-T-77-15	
	D5502	8-719-404-50	DIODE MA111-TX		ו ניטט	U-1 1 <i>U</i> -92U-00	PIODE MITO-1-11-19	
	D5503	8-719-404-50	DIODE MA111-TX			FERRITE BEAD		
	D5505	8-719-800-76	DIODE MA153-TX					
	D5506	8-719-404-50	DIODE MA111-TX		FB5001	1-410-397-21	FERRITE	1.1µH
	D5507	8-719-800-76	DIODE MA153-TX		FB5002	1-543-298-11	FERRITE	0μΗ
					FB6501	1-410-397-21	FERRITE	1.1µH
	D5513	8-719-991-33	DIODE 1SS133T-77		FB6502	1-410-396-41	FERRITE	0.45µH
	D5514	8-719-063-70	DIODE D1NL20U-TA2		FB6504	1-410-397-21	FERRITE	1.1µH
	D5515	8-719-063-70	DIODE D1NL20U-TA2		FB6505	1-412-911-11	FERRITE	0μΗ
	D5522	8-719-923-78	DIODE MTZJ-T-77-12		FB6506	1-412-911-11	FERRITE	0μΗ

NOTE: Les composants identifies par un trame et une marque $\hat{\underline{\ \ }}$ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.



REF. NO.	PART NO.	DESCRIPTION	VALUES		REF. NO.	PART NO.	DESCRIPTION	VALUES
FB6508	1-410-396-41	FERRITE	0.45µH		L5005	1-419-181-11	COIL, HORIZONTAL	LINEARITY
FB6509	1-410-396-41	FERRITE	0.45µH		L5504	1-406-989-21	INDUCTOR	10MH
FB8001	1-410-396-41	FERRITE	0.45µH		L5505	1-406-989-21	INDUCTOR	10MH
1 20001	1 110 000 11	LIMMIL	ο. Ιομί Ι		L5601	1-408-612-31	INDUCTOR	56µH
	<u>IC</u>				L6503	1-412-525-31	INDUCTOR	10µH
					L6504	1-412-525-31	INDUCTOR	10µH
IC5001	8-759-701-01	IC NJM2904M(TE2)			20001	1 112 020 01	INDOOTOR.	TOPIT
IC5002	8-759-700-07	IC NJM2903M-TE2			L6505	1-406-665-11	INDUCTOR	100µH
IC5003	8-759-518-68	IC PQ12RF21			L8001	1-406-670-11	INDUCTOR	680µH
IC5004	8-759-192-71	IC STV9379			L8002	1-419-658-11	INDUCTOR	107µH
IC5005	8-759-803-42	IC LA6500-FA			L8005	1-406-674-11	INDUCTOR	3.3MH
					20000	1 100 07 1 11	INDOOTOR	0.01111
IC5006	8-749-013-76	IC PQ6RD83B				PHOTO COUPLE	<u>R</u>	
IC5007	8-759-981-61	IC NJM2901M-TE2			DUIDEDA	0.740.004.05	DUOTO COURLED	ON0474 D
IC5008	8-759-675-90	IC BA51W12ST-V5		\wedge	PH6501	8-749-924-35	PHOTO COUPLER	ON3171-R
IC5501	6-700-149-01	IC M24C04-MN6T(A)		<u>^!</u>	PH6502	8-749-924-35	PHOTO COUPLER	ON3171-R
IC5502	8-759-981-61	IC NJM2901M-TE2		<u> </u>		8-749-924-35	PHOTO COUPLER	ON3171-R
					PH8001	8-749-924-35	PHOTO COUPLER	ON3171-R
IC5504	8-759-803-42	IC LA6500-FA				IC LINK		
IC5506	8-759-803-42	IC LA6500-FA IC LA6500-FA		^				
IC5510 IC5511	8-759-803-42 8-752-074-64	IC CXA2026AS		<u>^</u>	PS6501	1-576-390-91	LINK, IC	
IC5511	8-759-929-65	IC NJM79M12FA		<u> </u>	PS6502	1-576-390-91	LINK, IC	
103312	0-733-323-03	10 NOINT 9NT 21 A				TRANSISTOR		
IC5513	8-759-595-52	IC CXA8070AP			Q5001	8-729-422-27	TRANSISTOR 2SD601/	A_ORS_TY
IC5514	8-759-803-42	IC LA6500-FA			Q5001	8-729-424-02	TRANSISTOR 2SB709A	
IC5515	8-749-016-08	IC STK390-910			Q5002	8-729-015-28	TRANSISTOR IRFI9630	
IC6501	8-759-670-30	IC MCZ3001D			Q5003 Q5004	8-729-019-57	TRANSISTOR 2SA1208	
IC6503	8-749-012-13	IC DM-58			Q5005	8-729-422-27	TRANSISTOR 2SD601/	
IC6505	8-749-921-86	IC SE-140N			QUUUU	0 120 122 21	110 110 10 10 11 20 20 17	1 4.10 171
					Q5006	8-729-422-27	TRANSISTOR 2SD601/	A-QRS-TX
IC8001	8-759-981-61	IC NJM2901M-TE2			Q5007	8-729-424-02	TRANSISTOR 2SB709A	A-QRS-TX
IC8002	8-759-670-30	IC MCZ3001D IC UPC1093J-1-T			Q5008	8-729-424-02	TRANSISTOR 2SB709A	A-QRS-TX
IC8003	8-759-198-31				Q5011	8-729-422-27	TRANSISTOR 2SD601/	A-QRS-TX
IC8004	8-759-701-01	IC NJM2904M(TE2)			Q5012	8-729-119-80	TRANSISTOR 2SC2688	8-LK
	CHIP CONDUC	TOR						
JR5006	1-216-295-91	SHORT			Q5013	8-729-424-02	TRANSISTOR 2SB709A	
					Q5014	8-729-422-27	TRANSISTOR 2SD601/	
JR5007	1-216-295-91	SHORT			Q5015	8-729-119-80	TRANSISTOR 2SC2688	
JR5010	1-216-295-91	SHORT			Q5016	8-729-119-80	TRANSISTOR 2SC2688	
JR5501 JR6501	1-216-295-91 1-216-295-91	SHORT SHORT			Q5017	8-729-119-80	TRANSISTOR 2SC2688	3-LK
1,0001	1-210-290-91	SHOKI			Q5018	8-729-422-27	TRANSISTOR 2SD601/	A-ORS-TX
JR8001	1-216-295-91	SHORT			Q5019	8-729-422-27	TRANSISTOR 2SD601/	
JR8002	1-216-295-91	SHORT			Q5020	8-729-424-02	TRANSISTOR 2SB709A	
JR8003	1-216-295-91	SHORT			Q5020 Q5021	8-729-422-27	TRANSISTOR 2SD601/	** *
JR8004	1-216-295-91	SHORT			Q5021	8-729-424-02	TRANSISTOR 2SB709A	
JR8005	1-216-295-91	SHORT			QUULL	0 120 424 02	110 (1000 1010 2001 00)	T QITO TA
JR8006	1-216-295-91	SHORT			Q5023	8-729-422-27	TRANSISTOR 2SD601/	A_ORS_TX
JR8007	1-216-295-91	SHORT			Q5026	8-729-422-27	TRANSISTOR 2SD601/	
JR8053	1-216-295-91	SHORT			Q5027	8-729-424-02	TRANSISTOR 2SB709A	
					Q5027	8-729-322-27	TRANSISTOR 2SK2182	** *
	COIL				Q5030	8-729-052-71	TRANSISTOR 2SC3997	
L5001	1-406-665-11	INDUCTOR	100µH					
L5002	1-406-663-21	INDUCTOR	47μH		Q5031	8-729-053-24	TRANSISTOR 2SK3262	
L5003	1-406-892-21	INDUCTOR	4MH		Q5033	8-729-424-02	TRANSISTOR 2SB709A	
L5004	1-412-525-31	INDUCTOR	10μH		Q5034	8-729-422-27	TRANSISTOR 2SD601/	A-QKS-TX



REF. NO.	PART NO.	DESCRIPTION	VALUI	ES		F	REF. NO.	PART NO.	DESCRIPTION	VALUE	ES	
Q5035	8-729-422-27	TRANSISTOR 2SD601	Λ_Ω P Q_TY			F	R5004	1-216-099-00	RES-CHIP	120K	5%	1/10W
						1	R5005	1-216-033-00	RES-CHIP	220	5%	1/10W
Q5036	8-729-422-27	TRANSISTOR 2SD601				1	R5007	1-216-099-00	RES-CHIP	120K	5%	1/10W
Q5037	8-729-422-27	TRANSISTOR 2SD601.										
Q5501	8-729-422-27	TRANSISTOR 2SD601.	A-QRS-TX			1	R5008	1-216-073-91	RES-CHIP	10K	5%	1/10W
						1	R5009	1-216-099-00	RES-CHIP	120K	5%	1/10W
Q5502	1-801-806-11	TRANSISTOR DTC144	EKA-T146			F	R5011	1-216-099-00	RES-CHIP	120K	5%	1/10W
Q5503	1-801-806-11	TRANSISTOR DTC144	EKA-T146									
Q5504	8-729-422-27	TRANSISTOR 2SD601.				F	R5012	1-208-814-91	METAL CHIP	22K	0.50%	1/10W
Q5505	1-801-806-11	TRANSISTOR DTC144				F	R5013	1-216-393-00	METAL OXIDE	2.2	5%	3W
Q5506	8-729-422-27	TRANSISTOR 2SD601				1 F	R5014	1-208-790-11	METAL CHIP	2.2K	0.50%	1/10W
QUUUU	0 120 422 21	110 (1010 1010 200001)	ri Qilo iri			F	R5016	1-208-832-11	METAL CHIP	120K	0.50%	1/10W
Q5507	8-729-931-45	TRANSISTOR IRF614				1	R5017	1-208-832-11	METAL CHIP	120K		1/10W
			4 ODO TV			'					0.0070	.,
Q5508	8-729-422-27	TRANSISTOR 2SD601				,	R5018	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
Q5509	8-729-424-02	TRANSISTOR 2SB709					R5019	1-249-429-11	CARBON	10K	5%	1/4W
Q6503	8-729-422-27	TRANSISTOR 2SD601.	A-QRS-TX									
Q6506	8-729-052-32	TRANSISTOR IRFIB7N	150A-LF31			1	R5020	1-208-800-11	METAL CHIP	5.6K		1/10W
						1	R5021	1-208-826-11	METAL CHIP	68K		1/10W
Q6507	8-729-052-32	TRANSISTOR IRFIB7N	150A-LF31				R5022	1-208-816-11	METAL CHIP	27K	0.50%	1/10W
Q6520	8-729-019-57	TRANSISTOR 2SA120	8S-TP									
Q6521	8-729-423-33	TRANSISTOR 2SC331	1A-QRSTA			F	R5023	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
Q6522	8-729-119-76	TRANSISTOR 2SA130	9A-QRSTA			F	R5024	1-216-089-91	RES-CHIP	47K	5%	1/10W
Q6524	8-729-119-76	TRANSISTOR 2SA130				F	R5025	1-208-800-11	METAL CHIP	5.6K	0.50%	1/10W
Q002 !	0 120 110 10	110 0101010112071100	071 0110 171			F	R5026	1-216-049-11	RES-CHIP	1K	5%	1/10W
Q6526	8-729-424-02	TRANSISTOR 2SB709	∆_∩RS_TY			F	R5027	1-208-826-11	METAL CHIP	68K	0.50%	1/10W
Q6527	8-729-023-22	TRANSISTOR 2SD211										
						F	R5028	1-208-822-11	METAL CHIP	47K	0.50%	1/10W
Q6528	8-729-422-27	TRANSISTOR 2SD601					R5029	1-208-798-11	METAL CHIP	4.7K		1/10W
Q6529	8-729-422-27	TRANSISTOR 2SD601					R5030	1-216-295-91	SHORT	1.710	0.0070	1/1011
Q6530	8-729-424-02	TRANSISTOR 2SB709	A-QRS-TX			1	R5031	1-208-782-11	METAL CHIP	1K	0.50%	1/10W
						1	R5033	1-216-025-11	RES-CHIP	100	5%	1/10W
Q6531	8-729-422-27	TRANSISTOR 2SD601.				'	70000	1-210-023-11	KE3-CHIP	100	3 %	1/1044
Q6532	8-729-422-27	TRANSISTOR 2SD601.				Ι,	25000	4 040 005 04	DEO OLUB	0017	5 0/	4/40/4/
Q8001	8-729-422-27	TRANSISTOR 2SD601.	A-QRS-TX			1	R5036	1-216-085-91	RES-CHIP	33K	5%	1/10W
Q8002	8-729-422-27	TRANSISTOR 2SD601.	A-QRS-TX				R5037	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
Q8003	8-729-422-27	TRANSISTOR 2SD601.	A-QRS-TX			1	R5038	1-216-075-00	RES-CHIP	12K	5%	1/10W
						1	R5039	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
Q8004	8-729-422-27	TRANSISTOR 2SD601.	A-QRS-TX			F	R5040	1-216-089-91	RES-CHIP	47K	5%	1/10W
Q8007	8-729-422-27	TRANSISTOR 2SD601.	A-QRS-TX									
Q8008	8-729-422-27	TRANSISTOR 2SD601				F	R5041	1-249-383-11	CARBON	1.5	5%	1/4W
Q8009	8-729-200-17	TRANSISTOR 2SA109				F	R5042	1-216-081-00	RES-CHIP	22K	5%	1/10W
Q8010	8-729-422-27	TRANSISTOR 2SD601.				1 F	R5043	1-208-798-11	METAL CHIP	4.7K	0.50%	1/10W
Q0010	0-123-422-21	TIANOISTON ZODOUT	A-QI\0-IX				R5044	1-216-073-91	RES-CHIP	10K	5%	1/10W
00012	8-729-044-42	TRANSISTOR IRFI644	C I E36			1	R5045	1-216-073-91	RES-CHIP	10K	5%	1/10W
Q8013						1 '	10010	121001001	1120 01111	1011	070	17 1011
Q8014	8-729-044-42	TRANSISTOR IRFI644					R5046	1-214-798-21	METAL	1.8	1%	1/2W
Q8015	8-729-119-80	TRANSISTOR 2SC268					3040 R5047	1-216-057-00	RES-CHIP	2.2K	5%	1/2VV 1/10W
Q8016	8-729-045-65	TRANSISTOR 2SA177										
Q8018	8-729-043-95	TRANSISTOR 2SC384	0K			1	R5048	1-208-802-11	METAL CHIP	6.8K		1/10W
						1	R5049	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
Q8019	1-801-806-11	TRANSISTOR DTC144	EKA-T146				R5050	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
Q8020	8-729-422-27	TRANSISTOR 2SD601.	A-QRS-TX									
Q8022	8-729-424-02	TRANSISTOR 2SB709	A-QRS-TX				R5051	1-249-414-11	CARBON	560	5%	1/4W
Q8023	8-729-422-27	TRANSISTOR 2SD601.	A-QRS-TX			F	R5052	1-214-796-00	METAL	1.5	1%	1/2W
						F	R5053	1-215-890-11	METAL OXIDE	470	5%	2W
	RESISTOR					F	R5054	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
DECC	4 040 004 00	DEO OUID	40	F0/	4/40/4/	1	R5055	1-216-073-91	RES-CHIP	10K	5%	1/10W
R5001	1-216-001-00	RES-CHIP	10	5%	1/10W							
R5002	1-216-033-00	RES-CHIP	220	5%	1/10W		R5056	1-216-105-91	RES-CHIP	220K	5%	1/10W
R5003	1-216-073-91	RES-CHIP	10K	5%	1/10W	1	R5057	1-216-073-91	RES-CHIP	10K	5%	1/10W
						' '		5 0 0 0 1		1011	- /0	.,



REF. NO.	PART NO.	DESCRIPTION	VALU	FS			REF. NO.	PART NO.	DESCRIPTION	VALU	EQ	
					4/40144							
R5058	1-216-113-00	RES-CHIP	470K	5%	1/10W		R5111	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R5059	1-216-065-91	RES-CHIP	4.7K	5%	1/10W		R5112	1-216-033-00	RES-CHIP	220	5%	1/10W
R5063	1-208-813-11	METAL CHIP	20K	0.50%	1/10W		R5113	1-249-425-11	CARBON	4.7K	5%	1/4W
R5064	1-218-761-11	METAL CHIP	240K	0.50%	1/10W		R5114	1-249-425-11	CARBON	4.7K	5%	1/4W
R5065	1-218-761-11	METAL CHIP	240K	0.50%	1/10W		R5115	1-249-417-11	CARBON	1K	5%	1/4W
R5066	1-208-792-11	METAL CHIP	2.7K	0.50%	1/10W		R5116	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
DE007	4 000 704 44	METAL OLUB	0.016	0.500/	4/40/4/		DE447	4 040 055 00	DEO OLUB	4.017	E0/	4/40/4/
R5067	1-208-794-11	METAL CHIP	3.3K		1/10W		R5117	1-216-055-00	RES-CHIP	1.8K	5%	1/10W
R5068	1-216-105-91	RES-CHIP	220K	5%	1/10W		R5120	1-216-049-11	RES-CHIP	1K	5%	1/10W
R5069	1-216-113-00	RES-CHIP	470K	5%	1/10W		R5121	1-216-073-91	RES-CHIP	10K	5%	1/10W
R5070	1-216-113-00	RES-CHIP	470K	5%	1/10W		R5122	1-216-073-91	RES-CHIP	10K	5%	1/10W
R5071	1-208-810-11	METAL CHIP	15K	0.50%	1/10W		R5123	1-216-295-91	SHORT			
R5072	1-208-810-11	METAL CHIP	15K	0.50%	1/10W		R5124	1-216-295-91	SHORT			
R5073	1-208-830-11	METAL CHIP	100K		1/10W		R5125	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R5074	1-208-830-11	METAL CHIP	100K		1/10W		R5126	1-216-025-11	RES-CHIP	100	5%	1/10W
R5075	1-208-830-11	METAL CHIP	100K		1/10W		R5127	1-215-890-11	METAL OXIDE	470	5%	2W
R5076	1-208-830-11	METAL CHIP	100K	0.50%	1/10W		R5128	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R5077	1-208-816-11	METAL CHIP	27K	0.50%	1/10W		R5129	1-216-025-11	RES-CHIP	100	5%	1/10W
R5078	1-208-830-11	METAL CHIP	100K		1/10W		R5130	1-249-401-11	CARBON	47	5%	1/4W
R5079	1-208-810-11	METAL CHIP	15K		1/10W		R5131	1-208-794-11	METAL CHIP	3.3K		1/10W
					1/10W							3W
R5080	1-216-065-91	RES-CHIP	4.7K	5%			R5132	1-216-481-11	METAL OXIDE	1.2K	5%	
R5081	1-208-830-11	METAL CHIP	100K	0.50%	1/10W		R5133	1-216-481-11	METAL OXIDE	1.2K	5%	3W
R5082	1-208-806-11	METAL CHIP	10K	0.50%	1/10W		R5134	1-216-481-11	METAL OXIDE	1.2K	5%	3W
R5083	1-208-790-11	METAL CHIP	2.2K	0.50%	1/10W		R5135	1-216-481-11	METAL OXIDE	1.2K	5%	3W
R5084	1-216-073-91	RES-CHIP	10K	5%	1/10W		R5136	1-216-481-11	METAL OXIDE	1.2K	5%	3W
R5085	1-216-113-00	RES-CHIP	470K	5%	1/10W		R5137	1-216-481-11	METAL OXIDE	1.2K	5%	3W
R5086	1-216-065-91	RES-CHIP	4.7K	5%	1/10W		R5138	1-216-049-11	RES-CHIP	1.2IX	5%	1/10W
11,0000	1-210-003-31	NES-CITII	4.710	J /0	1/1044		110100	1-210-043-11	NEO-CI III	IIX	J /0	1/1000
R5087	1-216-065-91	RES-CHIP	4.7K	5%	1/10W		R5139	1-216-049-11	RES-CHIP	1K	5%	1/10W
R5088	1-216-049-11	RES-CHIP	1K	5%	1/10W		R5140	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R5089	1-216-372-11	METAL OXIDE	1.8	5%	2W		R5141	1-215-915-11	METAL OXIDE	470	5%	3W
R5090	1-216-372-11	METAL OXIDE	1.8	5%	2W		R5142	1-216-386-11	METAL OXIDE	0.56	5%	3W
R5091	1-249-389-11	CARBON	4.7	5%	1/4W		R5143	1-216-385-11	METAL OXIDE	0.47	5%	3W
D5000	1 0 1 0 0 1 0 1 1	DEC CUID	416	= 0/	4/40/4/		D5444	4 040 005 44	METAL OVIDE	0.47	= 0/	0147
R5092	1-216-049-11	RES-CHIP	1K	5%	1/10W		R5144	1-216-385-11	METAL OXIDE	0.47	5%	3W
R5093	1-208-807-11	METAL CHIP	11K		1/10W		R5145	1-215-880-00	METAL OXIDE	10	5%	2W
R5094	1-215-869-11	METAL OXIDE	1K	5%	1W		R5146	1-216-089-91	RES-CHIP	47K	5%	1/10W
R5095	1-249-443-11	CARBON	0.47	5%	1/4W		R5147	1-208-794-11	METAL CHIP	3.3K	0.50%	1/10W
R5096	1-249-443-11	CARBON	0.47	5%	1/4W		R5148	1-215-865-11	METAL OXIDE	220	5%	1W
D5007	1-249-380-11	CARBON	0.82	5%	1/4W		D51/10	1-216-065-91	RES-CHIP	17K	5 0/.	1/10W
R5097							R5149			4.7K	5% 5%	
R5098	1-249-379-11	CARBON	0.68	5%	1/4W		R5150	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R5101	1-208-798-11	METAL CHIP	4.7K		1/10W		R5151	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R5102	1-208-782-11	METAL CHIP	1K		1/10W		R5152	1-216-073-91	RES-CHIP	10K	5%	1/10W
R5103	1-208-790-11	METAL CHIP	2.2K	0.50%	1/10W		R5153	1-216-073-91	RES-CHIP	10K	5%	1/10W
R5104	1-216-073-91	RES-CHIP	10K	5%	1/10W		R5154	1-216-073-91	RES-CHIP	10K	5%	1/10W
R5105	1-216-089-91	RES-CHIP	47K	5%	1/10W		R5155	1-216-081-00	RES-CHIP	22K	5%	1/10W
R5105	1-216-065-91	RES-CHIP	4.7K	5%	1/10W		R5156	1-216-089-91	RES-CHIP	47K	5%	1/10W
R5107	1-249-401-11	CARBON	47 261	5%	1/4W		R5157	1-216-089-91	RES-CHIP	47K	5%	1/10W
R5108	1-208-819-11	METAL CHIP	36K	0.50%	1/10W		R5158	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R5109	1-208-808-11	METAL CHIP	12K	0.50%	1/10W		R5159	1-216-025-11	RES-CHIP	100	5%	1/10W
R5110	1-249-401-11	CARBON	47	5%	1/4W		R5160	1-216-025-11	RES-CHIP	100	5%	1/10W
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REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUE	S	
R5161	1-216-057-00	RES-CHIP	2.2K	5%	1/10W	R5585	1-208-846-11	METAL CHIP	470K	0.50%	1/10W
R5163	1-216-063-91	RES-CHIP	3.9K	5%	1/10W	R5588	1-216-353-00	METAL OXIDE	2.2	5%	1W
R5164	1-260-288-11	CARBON	0.47	5%	1/10VV 1/2W	R5599	1-216-073-91	RES-CHIP	10K	5%	1/10W
						R5615	1-249-395-11	CARBON	15	5%	1/4W
R5501	1-216-033-00	RES-CHIP	220	5%	1/10W	R5623	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R5502	1-216-295-91	SHORT	47	E 0/	4/40/4/	110020	1 210 007 00	INEO OF III	2.21	0 /0	1/1044
R5503	1-216-017-91	RES-CHIP	47	5%	1/10W	DEGAE	1-216-089-91	RES-CHIP	47K	5%	1/10W
						R5645					
R5504	1-208-840-11	METAL CHIP	270K		1/10W	R5647	1-208-758-11	METAL CHIP	100		1/10W
R5505	1-208-840-11	METAL CHIP	270K	0.50%	1/10W	R5648	1-216-385-11	METAL OXIDE	0.47	5%	3W
R5506	1-216-073-91	RES-CHIP	10K	5%	1/10W	R5649	1-215-886-11	METAL OXIDE	100	5%	2W
R5507	1-216-017-91	RES-CHIP	47	5%	1/10W	R5650	1-216-089-91	RES-CHIP	47K	5%	1/10W
R5508	1-216-025-11	RES-CHIP	100	5%	1/10W						
						R5657	1-208-798-11	METAL CHIP	4.7K		1/10W
R5509	1-216-025-11	RES-CHIP	100	5%	1/10W	R5666	1-216-091-00	RES-CHIP	56K	5%	1/10W
R5510	1-216-025-11	RES-CHIP	100	5%	1/10W	R5669	1-208-789-11	METAL CHIP	2K	0.50%	1/10W
R5511	1-216-295-91	SHORT	100	070	1, 1011	R5670	1-208-820-11	METAL CHIP	39K	0.50%	1/10W
R5512	1-216-065-91	RES-CHIP	4.7K	5%	1/10W	R5672	1-216-109-00	RES-CHIP	330K	5%	1/10W
R5513	1-216-065-91	RES-CHIP	4.7K	5%	1/10W						
NJJIJ	1-210-005-31	NEO-CHIF	4.71	J /0	1/1000	R5678	1-208-804-11	METAL CHIP	8.2K	0.50%	1/10W
DEE44	4 040 005 04	OLIODT				R5679	1-249-395-11	CARBON	15	5%	1/4W
R5514	1-216-295-91	SHORT	0.71/	0.500/	4/40/4/	R5680	1-249-383-11	CARBON	1.5	5%	1/4W
R5516	1-208-792-11	METAL CHIP	2.7K		1/10W	R5684	1-243-303-11	METAL CHIP	4.7K		1/10W
R5518	1-208-822-11	METAL CHIP	47K		1/10W						
R5519	1-208-822-11	METAL CHIP	47K		1/10W	R5685	1-216-655-11	METAL CHIP	1.5K	0.50%	1/10W
R5520	1-208-816-11	METAL CHIP	27K	0.50%	1/10W	D5000	4 000 770 44	METAL OLUB	000	0.500/	4/4014/
						R5686	1-208-778-11	METAL CHIP	680		1/10W
R5521	1-216-073-91	RES-CHIP	10K	5%	1/10W	R5688	1-208-782-11	METAL CHIP	1K		1/10W
R5522	1-216-073-91	RES-CHIP	10K	5%	1/10W	R5689	1-216-017-91	RES-CHIP	47	5%	1/10W
R5523	1-208-822-11	METAL CHIP	47K	0.50%	1/10W	R5690	1-216-017-91	RES-CHIP	47	5%	1/10W
R5525	1-208-806-11	METAL CHIP	10K		1/10W	R5692	1-216-655-11	METAL CHIP	1.5K	0.50%	1/10W
R5526	1-216-065-91	RES-CHIP	4.7K	5%	1/10W						
				- / ·	.,	R5693	1-208-798-11	METAL CHIP	4.7K	0.50%	1/10W
R5527	1-216-065-91	RES-CHIP	4.7K	5%	1/10W	R5694	1-208-798-11	METAL CHIP	4.7K	0.50%	1/10W
R5528	1-216-081-00	RES-CHIP	22K	5%	1/10W	R5696	1-208-804-11	METAL CHIP	8.2K	0.50%	1/10W
R5529	1-216-073-91	RES-CHIP	10K	5%	1/10W	R5697	1-208-764-11	METAL CHIP	180	0.50%	1/10W
R5530	1-216-025-11	RES-CHIP	100	5%	1/10W	R5698	1-208-801-11	METAL CHIP	6.2K		1/10W
R5531		RES-CHIP	100	5%	1/10W						.,
K3331	1-216-001-00	KES-CHIP	10	3%	1/1000	R5699	1-216-081-00	RES-CHIP	22K	5%	1/10W
D5500	1 010 001 00	DEO OUID	40	E 0/	4/40/4/	R5700	1-208-810-11	METAL CHIP	15K		1/10W
R5532	1-216-001-00	RES-CHIP	10	5%	1/10W	R5702	1-208-782-11	METAL CHIP	1K		1/10W
R5535	1-208-806-11	METAL CHIP	10K		1/10W						
R5536	1-208-810-11	METAL CHIP	15K		1/10W	R5704	1-214-657-11	METAL	1	1%	1/4W
R5544	1-208-812-11	METAL CHIP	18K		1/10W	R5705	1-214-657-11	METAL	1	1%	1/4W
R5545	1-208-818-11	METAL CHIP	33K	0.50%	1/10W					-0/	
						R5707	1-216-017-91	RES-CHIP	47	5%	1/10W
R5547	1-216-081-00	RES-CHIP	22K	5%	1/10W	R5708	1-216-429-00	METAL OXIDE	270	5%	1W
R5548	1-216-089-91	RES-CHIP	47K	5%	1/10W	R5709	1-216-017-91	RES-CHIP	47	5%	1/10W
R5554	1-208-812-11	METAL CHIP	18K	0.50%	1/10W	R5710	1-216-429-00	METAL OXIDE	270	5%	1W
R5563	1-208-801-11	METAL CHIP	6.2K		1/10W	R5711	1-260-288-11	CARBON	0.47	5%	1/2W
R5564	1-208-830-11	METAL CHIP	100K		1/10W						
110001	1 200 000 11	ME I/ LE OI III	10010	0.0070	1/1011	R5712	1-260-288-11	CARBON	0.47	5%	1/2W
R5565	1-208-830-11	METAL CHIP	100K	0.50%	1/10W	R5713	1-215-867-00	METAL OXIDE	470	5%	1W
						R5714	1-216-097-11	RES-CHIP	100K	5%	1/10W
R5573	1-216-081-00	RES-CHIP	22K	5%	1/10W	R5715	1-216-097-11	RES-CHIP	100K	5%	1/10W
R5576	1-249-395-11	CARBON	15	5%	1/4W	R5716	1-216-049-11	RES-CHIP	1K	5%	1/10W
R5577	1-208-836-11	METAL CHIP	180K		1/10W	1107 10	1 210 070-11	ALO OTIII	11/	J /0	1/1000
R5578	1-208-812-11	METAL CHIP	18K		1/10W	D£747	1 216 002 04	RES-CHIP	68K	5%	1/10W
R5579	1-216-113-00	RES-CHIP	470K	5%	1/10W	R5717	1-216-093-91				1/10W
R5581	1-208-806-11	METAL CHIP	10K	0.50%	1/10W	R6501	1-208-757-11	METAL CHIP	91	0.50%	1/1000

NOTE: Les composants identifies par un trame et une marque 🛆 sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.



R86502 1-265-73-11 METAL CHIP 100 55% 1 100W 100% 1254-841-511 CARBON 100 55% 1 100W 100% 1254-841-510 CARBON 100 55% 1 100W 100% 1254-845-50 METAL 100K 15% 1 140W 1254-845-50 METAL 1	REF. NO.	PART NO.	DESCRIPTION	VALU	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALU	JES	
R8933 1269786H METM_CHIP 100 0.59% 1/10W R8991 1269431H METM_CODE 0.22 5% 1/10W R896 1249.9377H CARBON 0.47 5% 1/10W R8996 12494051H 100 1% 1/10W 1% 1/10W R8996 12494051H 100 1% 1/10W 1/10W <td< th=""><th>R6502</th><th>1-260-131-11</th><th>CARBON</th><th>470K</th><th>5%</th><th>1/2W</th><th><u>/</u></th><th>R6590</th><th>1-249-415-11</th><th>CARBON</th><th>680</th><th>5%</th><th>1/4W</th></td<>	R6502	1-260-131-11	CARBON	470K	5%	1/2W	<u>/</u>	R6590	1-249-415-11	CARBON	680	5%	1/4W
RESSID 1-216-073-91 RES-CHIP 10K 5% 110W RESSID 1-224-45-11 CARBON 100 5% 14W RESSID 1-216-085-91 RES-CHIP 4.7K 5% 110W RESSID 1-216-489-00 METAL 100K 1% 14W RESSID 1-216-085-91 RES-CHIP 4.7K 5% 110W RESSID 1-216-489-00 METAL 100K 1% 14W RESSID 1-216-085-91 RES-CHIP 10K 5% 110W RESSID 1-216-489-00 METAL 100K 1% 14W RESSID 1-216-085-91 RES-CHIP 10K 5% 110W RESSID 1-216-489-00 METAL 10K 1% 14W RESSID 1-216-073-91 RES-CHIP 10K 5% 110W RESSID 1-216-073-91 RES-CHIP 10K 5%													
R6506 1-245-93-77-11 CARBON 0.47 5% 1/10W R6506 1-215-045-90 METAL 10K 1% 14W R6507 1-216-055-91 RES-CHIP 4.7K 5% 1/10W R6508 1-215-045-90 METAL 100K 1% 14W R6509 1-216-053-91 RES-CHIP 4.7K 5% 1/10W R6588 1-216-047-11 CARBON 1K 5% 14W R6510 1-246-037-91 RES-CHIP 10K 5% 1/10W R6509 1-224-047-00 RES-CHIP 10K 5% 1/10W R6502 1-224-047-01 METAL 10K 5% 1/10W R6502 1-224-047-01 RES-CHIP 10K 5% 1/10W R6502 1-224-047-01 RES-CHIP 10K 5% 1/10W R6502 1-224-047-01 RES-CHIP 10K 5% 1/10W R6602 1-224-047-01 RES-CHIP 10K 5% 1/10W R6602 1-224-047-01 RES-CHIP 10K 5%													
R8597													
R8598 1-216-073-91 RES-CHIP 10K 5% 110W R6599 1-216-047-91 CARBON 1K 5% 110W R6599 1-216-047-91 CARBON 1K 5% 110W R6591 1-216-047-91 RES-CHIP 10K 5% 110W R6691 1-216-047-91 RES-CHIP 10K 5% 110W R6692 1-216-047-91 RES-CHIP 10K 5% 110W R6693 1-216-048-91 RES-CHIP 10K 5% 110W R6693 1-216-048-91 RES-CHIP 10K 1													
R8599 1-216-085-91 RES-CHIP 4.7K 5% 1/10W R8599 1-249-417-11 CARBON 1K 5% 1/10W R8510 1-216-389-90 METAL 10K 1% 180 1-216-448-11 RES-CHIP 10K 5% 1/10W R6802 1-216-448-11 RES-CHIP 10K 5% 1/10W R6802 1-216-448-11 RES-CHIP 10K 5% 1/10W R6803 1-216-448-11 RES-CHIP 10K 5% 1/10W R6803 1-216-448-11 RES-CHIP 10K 5% 1/10W R6803 1-216-497-39 I RES-CHIP 10K 5% 1/10W R6803 1-216-497-39 I RES-CHIP 10K 5% 1/10W R6804 1-216-497-39 I RES-CHIP 10K 5% 1/10W R6805 1-216-497-39 I RES-CHIP 10K 5% 1/10W R6805 1-216-497-39 I RES-CHIP 10K 5% 1/10W R6905 1-216-498-90 I RES-CHIP 20K 5% 1/10W R6905	R6507	1-216-065-91	RES-CHIP	4.7K	5%	1/10W		R6597	1-215-469-00	METAL	100K	1%	1/4VV
R8510 1215-895-00 METAL ONDE 22 5 % 1/10W R8600 1215-448-00 METAL 10K 1% 14/W R8511 1216-873-91 RES-CHIP 10K 5% 1/10W R8603 1216-873-91 RES-CHIP 10K 5% 1/10W R8603 1216-873-91 RES-CHIP 10K 5% 1/10W R8603 1216-873-91 RES-CHIP 10K 5% 1/10W R8514 126-873-91 RES-CHIP 10K 5% 1/10W R8514 126-873-91 RES-CHIP 10K 5% 1/10W R8514 126-887-90 RES-CHIP 20K 5% 1/10W R8616 1216-887-90 RES-CHIP 20K 5% 1/10W R8617 126-887-90 RES-CHIP 20K 5% 1/10W R8617 126-867-91 RES-CHIP 20K 5% 1/10W R8614 1206-878-91 RES-CHIP 47K 5% 1/10W R8617 126-869-91 RES-CHIP 10K 5% 1/10W R8617	R6508	1-216-073-91	RES-CHIP	10K	5%	1/10W		R6598	1-216-342-21	METAL OXIDE	0.27	5%	1W
R8510 1215-895-00 METAL ONDE 22 5 % 1/10W R8600 1215-448-00 METAL 10K 1% 14/W R8511 1216-873-91 RES-CHIP 10K 5% 1/10W R8603 1216-873-91 RES-CHIP 10K 5% 1/10W R8603 1216-873-91 RES-CHIP 10K 5% 1/10W R8603 1216-873-91 RES-CHIP 10K 5% 1/10W R8514 126-873-91 RES-CHIP 10K 5% 1/10W R8514 126-873-91 RES-CHIP 10K 5% 1/10W R8514 126-887-90 RES-CHIP 20K 5% 1/10W R8616 1216-887-90 RES-CHIP 20K 5% 1/10W R8617 126-887-90 RES-CHIP 20K 5% 1/10W R8617 126-867-91 RES-CHIP 20K 5% 1/10W R8614 1206-878-91 RES-CHIP 47K 5% 1/10W R8617 126-869-91 RES-CHIP 10K 5% 1/10W R8617	R6509	1-216-065-91	RES-CHIP	4.7K	5%	1/10W		R6599	1-249-417-11	CARBON	1K	5%	1/4W
R8511 1-216-073-91 RES-CHIP 10K 5% 1/10W R8603 1-216-073-91 RES-CHIP 11K 5% 1/10W R8612 1-216-073-91 RES-CHIP 10K 5% 1/10W R8613 1-216-073-91 RES-CHIP 10K 5% 1/10W R8613 1-216-073-91 RES-CHIP 10K 5% 1/10W R8613 1-216-073-91 RES-CHIP 10K 5% 1/10W R8614 1-216-073-91 RES-CHIP 22K 5% 1/10W R8615 1-26-073-91 RES-CHIP 22K 5% 1/10W R8615 1-216-073-91 RES-CHIP 27K 5% 1/10W R8616 1-216-073-91 RES-CHIP 27K 5% 1/10W R8616 1-216-073-91 RES-CHIP 10K 5% 1/10W R8616 1-216-073-91 RES-CHIP 10K 5% 1/10W R8616 1-216-073-91 RES-CHIP 10K 5% 1/10W R8617 1-216-073-91 RES-CHIP 10K 5% 1/10W R8623 1-216-08-91 RES-CHIP 10K 5% 1/10W R8623 1-216-08-91 RES-CHIP 22K 5% 1/10W								R6600	1-215-445-00	METAL	10K	1%	1/4W
R6512 1-216-073-91 RES-CHIP 10K 5% 1/10W R6603 1-216-073-91 RES-CHIP 10K 5% 1/10W R6513 1-215-481-00 METAL 330K 1% 1/4W R6605 1-216-073-81 RES-CHIP 10K 5% 1/10W R6514 1-216-073-81 RES-CHIP 2.2K 5% 1/10W R6515 1-202-962-11 CEMENTED 3.3 5% 10W R6516 1-202-962-11 CEMENTED 3.3 5% 10W R6516 1-202-962-11 CEMENTED 3.3 5% 10W R6516 1-202-962-11 CEMENTED 3.3 5% 10W R6514 1-260-298-51 CARBON 3.3 5% 12W R6517 1-208-96-11 METAL CHIP 8.2K 0.50% 1/10W R6614 1-260-298-51 CARBON 3.3 5% 12W R6519 1-216-298-91 SHORT 15K 0.50% 1/10W R6614 1-260-298-51 CARBON 3.3 5% 1/2W R6519 1-216-232-11 CARBON 1K 5% 1/10W R6004 1-216-065-91 RES-CHIP 2.2K 5% 1/10W R6522 1-216-073-91 RES-CHIP 2.2K 5% 1/10W R6523 1-216-073-91 RES-CHIP 2.2K 5% 1/10W R6523 1-216-073-91 RES-CHIP 2.2K 5% 1/10W R6004 1-216-089-91 RES-CHIP 2.2K 5% 1/10W R6004 1-216-089-91 RES-CHIP 2.2K 5% 1/10W R6004 1-216-089-91 RES-CHIP 2.2K 5% 1/10W R6005 1-216-089-91 RE													
R8513 1-215-481-00 METAL 330K 1% 144W R8605 1-216-073-91 RES-CHIP 10K 5% 1/10W R8514 1-215-481-00 RES-CHIP 22K 5% 1/10W R8515 1-220-131-11 CARBON 470K 5% 1/2W R8515 1-220-131-11 CARBON 470K 5% 1/2W R8516 1-220-85-11 METAL CHIP 8.2K 0.50% 1/10W R8614 1-260-89-91 RES-CHIP 47K 5% 1/10W R8516 1-220-85-10-11 METAL CHIP 8.2K 0.50% 1/10W R8614 1-260-89-91 RES-CHIP 47K 5% 1/10W R8516 1-226-80-11 METAL CHIP 15K 0.50% 1/10W R8616 1-216-05-91 RES-CHIP 47K 5% 1/10W R8519 1-216-05-91 RES-CHIP 47K 5% 1/10W R8521 1-216-05-91 RES-CHIP 47K 5% 1/10W R8521 1-216-05-91 RES-CHIP 22K 5% 1/10W R8522 1-216-05-91 SHORT R8522 1-216-05-91 SHORT R8522 1-216-05-91 RES-CHIP 22K 5% 1/10W R8622 1-216-05-91 RES-CHIP 22K 5% 1/10W R8623 1-216-05-91 RES-CHIP 3K 5% 1/10W R8623 1-216-05-91 RES-CHIP													
R8514 1.215-481-00 METAL 330K 1% 14W R8615 1-26-189-91 RES-CHIP 22K 5% 1/10W R8515 1-280-802-11 CARBON 470K 5% 10W R8612 1-26-899-91 RES-CHIP 47K 5% 11/10W R8517 1-208-804-11 METAL CHIP 8.2K 0.50% 11/10W R8614 1-260-288-51 CARBON 3.3 5% 12/10W R8518 1-208-804-11 METAL CHIP 15K 0.50% 11/10W R8601 1-216-093-91 RES-CHIP 10K 5% 11/10W R8521 1-280-328-11 CARBON 1K 5% 11/10W R8002 1-216-081-91 RES-CHIP 10K 5% 11/10W R8522 1-216-081-90 RES-CHIP 10K 5% 11/10W R8004 1-216-081-90 RES-CHIP 22K 5% 11/10W R8622 1-216-081-90 RES-CHIP 20K 5% 11/10W R8005 1-216-081-90	110012	1 210 010 01	1120 01111	1011	070	1,1011							.,
R6515 1-280-131-11 CARBON 470K 5½ 1/2W R6516 1-202-982-11 CEMENTED 3.3 5½ 1/0W R6614 1-280-298-51 CARBON 3.3 5½ 1/0W R6614 1-280-298-51 CARBON 3.3 5½ 1/2W R6517 1-216-404-00 METAL 330 K 1½ 1/2W R6614 1-216-404-00 METAL 330 K 1½ 1/2W R6513 1-226-93-91 SHORT R6519 1-216-93-91 RES-CHIP 10K 5% 1/10W R6001 1-216-073-91 RES-CHIP 47K 5% 1/10W R6521 1-216-073-91 RES-CHIP 10K 5% 1/10W R8001 1-216-081-00 RES-CHIP 47K 5% 1/10W R6522 1-216-073-91 RES-CHIP 22K 5½ 1/10W R8004 1-216-081-00 RES-CHIP 22K 5% 1/10W R6523 1-216-041-00 RES-CHIP 470 5½ 1/10W R8007 1-216-081-00													
R8516	R6514	1-215-481-00	METAL	330K	1%	1/4W							
R6517 1-208-804-11 METAL CHIP 8.2K 0.50% 1/10W R6518 1-208-810-11 METAL CHIP 15K 0.50% 1/10W R6519 1-216-395-91 SHORT R8502 1-216-085-91 SHORT R8502 1-216-085-91 RES-CHIP 4.7K 5% 1/10W R6521 1-226-0328-11 CARBON 1K 5% 1/10W R8002 1-216-081-00 RES-CHIP 2ZK 5% 1/10W R6522 1-216-037-91 RES-CHIP 10K 5% 1/10W R6522 1-216-037-91 RES-CHIP 2ZK 5% 1/10W R6523 1-216-038-10 RES-CHIP 2ZK 5% 1/10W R6523 1-216-038-10 RES-CHIP 2ZK 5% 1/10W R6523 1-216-038-11 RES-CHIP 2ZK 5% 1/10W R6525 1-216-038-11 RES-CHIP 2ZK 5% 1/10W R6526 1-216-038-11 RES-CHIP 10K 5% 1/10W R6015 1-216-049-11 RES-CHIP 2ZK 5% 1/10W R6536 1-216-038-11 RES-CHIP 10K 5% 1/10W R6015 1-216-049-11 RES-CHIP 10K 5% 1/10W R6015 1-216-049-1	R6515	1-260-131-11	CARBON	470K	5%	1/2W		R6612	1-216-089-91	RES-CHIP	47K	5%	1/10W
R6517 1-208-804-11 METAL CHIP 8.2K 0.50% 1/10W R6518 1-208-810-11 METAL CHIP 15K 0.50% 1/10W R6519 1-216-395-91 SHORT R8502 1-216-085-91 SHORT R8502 1-216-085-91 RES-CHIP 4.7K 5% 1/10W R6521 1-226-0328-11 CARBON 1K 5% 1/10W R8002 1-216-081-00 RES-CHIP 2ZK 5% 1/10W R6522 1-216-037-91 RES-CHIP 10K 5% 1/10W R6522 1-216-037-91 RES-CHIP 2ZK 5% 1/10W R6523 1-216-038-10 RES-CHIP 2ZK 5% 1/10W R6523 1-216-038-10 RES-CHIP 2ZK 5% 1/10W R6523 1-216-038-11 RES-CHIP 2ZK 5% 1/10W R6525 1-216-038-11 RES-CHIP 2ZK 5% 1/10W R6526 1-216-038-11 RES-CHIP 10K 5% 1/10W R6015 1-216-049-11 RES-CHIP 2ZK 5% 1/10W R6536 1-216-038-11 RES-CHIP 10K 5% 1/10W R6015 1-216-049-11 RES-CHIP 10K 5% 1/10W R6015 1-216-049-1	∕!\ R6516	1-202-962-11	CEMENTED	3.3	5%	10W		R6614	1-260-298-51	CARBON	3.3	5%	1/2W
R8518 1-208-810-11 METAL CHIP 15K 0.50% 1/10W R8001 1-216-273-91 RES-CHIP 10K 5% 1/10W R6519 1-216-235-91 SHORT K 5% 1/2W R8002 1-216-035-91 RES-CHIP 22K 5% 1/10W R6521 1-260-329-11 CARBON 1K 5% 1/10W R8004 1-216-081-00 RES-CHIP 22K 5% 1/10W R6523 1-216-081-00 RES-CHIP 22K 5% 1/10W R8005 1-216-081-00 RES-CHIP 22K 5% 1/10W R6524 1-216-081-00 RES-CHIP 22K 5% 1/10W R8005 1-216-081-00 RES-CHIP 22K 5% 1/10W R6524 1-216-039-91 SHORT RES-CHIP 470 5% 1/10W R8007 1-216-039-91 RES-CHIP 220K 5% 1/10W R6527 1-216-039-91 RES-CHIP 47X 5% 1/10W R8001 1-216-													
R8519 1-216-295-91 SHORT													
R8521 1.260-328-11 CARBON 1K 5% 1/2W R8003 1-216-081-00 RES-CHIP 2ZK 5% 1/10W R6522 1.216-081-09 RES-CHIP 1W 5% 1/10W R8004 1.216-081-00 RES-CHIP 2ZK 5% 1/10W R6524 1.216-081-00 RES-CHIP 2ZK 5% 1/10W R8006 1.216-081-00 RES-CHIP 2ZK 5% 1/10W R6525 1.216-081-01 RES-CHIP 470 5% 1/10W R8007 1.216-089-91 RES-CHIP 2ZK 5% 1/10W R6527 1.216-081-00 RES-CHIP 470 5% 1/10W R8007 1.216-089-91 RES-CHIP 47K 5% 1/10W R6527 1.216-081-01 RES-CHIP 470 5% 1/10W R8008 1.216-081-01 RES-CHIP 220K 5% 1/10W R6528 1.220-035-01 RES-CHIP 100 5% 1/10W R8010 1.216-105-91	R6518	1-208-810-11	METAL CHIP	15K	0.50%	1/10W		R8001	1-216-073-91	RES-CHIP	10K		1/10W
R8521 1-260-328-11	R6519	1-216-295-91	SHORT					R8002	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R8522 1-216-073-91 RES-CHIP 10K 5% 1/10W R8004 1-216-081-00 RES-CHIP 22K 5% 1/10W R8023 1-216-081-00 RES-CHIP 22K 5% 1/10W R8023 1-216-081-00 RES-CHIP 22K 5% 1/10W R8023 1-216-081-00 RES-CHIP 22K 5% 1/10W R8025 1-216-081-00 RES-CHIP 22K 5% 1/10W R8025 1-216-081-00 RES-CHIP 20K 5% 1/10W R8025 1-216-093-91 RES-CHIP 47K 5% 1/10W R8027 1-216-089-91 RES-CHIP 22K 5% 1/10W R8027 1-216-093-91 RES-CHIP 22K 5% 1/10W R8027 1-216-093-91 RES-CHIP 22K 5% 1/10W R8028 1-216-081-10 RES-CHIP 22K 5% 1/10W R8028 1-216-081-10 RES-CHIP 22K 5% 1/10W R8028 1-216-081-11 RES-CHIP 22K 5% 1/10W R8028 1-216-081-10 RES-CHIP 22K 5% 1/10W R8028 1-216-091-10 RES-CHIP 22K 5% 1/10W R8028 1-216-091-10 RES-CHIP 22K 5% 1/10W R8028 1-216-091-10 RES-CHIP 10K 5% 1/10W R8028 1-216-091-10 RES-CH		1-260-328-11	CARBON	1K	5%	1/2W		R8003	1-216-081-00	RES-CHIP	22K	5%	1/10W
R6523 1.216-081-00 RES-CHIP 22K 5% 1/10W R8005 1-216-081-00 RES-CHIP 22K 5% 1/10W R6524 1-216-295-91 SHORT R6525 1-216-010-91 RES-CHIP 20K 5% 1/10W R6526 1-202-933-61 PUSIBLE 0.1 10% 1/2W R8008 1-216-081-00 RES-CHIP 22K 5% 1/10W R6527 1-216-093-91 RES-CHIP 68K 5% 1/10W R8009 1-216-081-00 RES-CHIP 220K 5% 1/10W R6528 1-216-025-11 RES-CHIP 100 5% 1/10W R8010 1-216-105-91 RES-CHIP 220K 5% 1/10W R6529 1-249-393-11 CARBON 10 5% 1/4W R8011 1-216-105-91 RES-CHIP 220K 5% 1/10W R6530 1-216-073-91 RES-CHIP 10K 5% 1/10W R8011 1-216-295-91 SHORT RES-CHIP 3.3K									1-216-081-00			5%	
R6524 1-216-295-91 SHORT R8006 1-216-105-91 RES-CHIP 220K 5% 1/10W R6525 1-216-041-00 RES-CHIP 470 5% 1/10W R8007 1-216-089-91 RES-CHIP 47K 5% 1/10W R6526 1-202-933-61 FUSIBLE 0.1 10% 1/2W R8008 1-216-08-91 RES-CHIP 22K 5% 1/10W R6527 1-216-039-391 RES-CHIP 100 5% 1/10W R8009 1-216-105-91 RES-CHIP 22K 5% 1/10W R6528 1-216-025-91 RES-CHIP 100 5% 1/10W R8001 1-216-105-91 RES-CHIP 22K 5% 1/10W R6529 1-249-393-11 CARBON 10 5% 1/4W R8011 1-216-105-91 RES-CHIP 22K 5% 1/10W R6531 1-249-393-11 CARBON 10 5% 1/4W R8016 1-216-03-91 RES-CHIP 22K 5% 1/10W													
R6525 1-216-041-00 RES-CHIP 470 5% 1/10W R8007 1-216-081-00 RES-CHIP 47K 5% 1/10W R6526 1-20-933-61 FUSIBLE 0.1 10% 1/2W R8009 1-216-081-01 RES-CHIP 22K 5% 1/10W R6528 1-216-025-11 RES-CHIP 100 5% 1/10W R8010 1-216-105-91 RES-CHIP 220K 5% 1/10W R6528 1-216-025-11 RES-CHIP 100 5% 1/10W R8010 1-216-105-91 RES-CHIP 220K 5% 1/10W R6530 1-249-393-11 CARBON 10 5% 1/10W R8013 1-216-05-91 RES-CHIP 220K 5% 1/10W R6531 1-249-393-11 CARBON 10 5% 1/10W R8013 1-216-05-91 SHORT RES-CHIP 3.3K 5% 1/10W R6532 1-216-073-91 RES-CHIP 10K 5% 1/10W R8016 1-216-061	N0323	1-210-001-00	NEO-CHIF	ZZIX	J /0	1/1000		110003	1-210-001-00	NEO-OHII	ZZIX	J 70	1/1044
R6526 1-202-933-61 FUSIBLE 0.1 10% 1/2/W R8008 1-216-081-00 RES-CHIP 22K 5% 1/10W R6527 1-216-093-91 RES-CHIP 68K 5% 1/10W R8009 1-216-105-91 RES-CHIP 20K 5% 1/10W R6528 1-216-025-11 RES-CHIP 100 5% 1/10W R8010 1-216-105-91 RES-CHIP 220K 5% 1/10W R6530 1-216-05-91 RES-CHIP 4.7K 5% 1/10W R8013 1-216-105-91 RES-CHIP 220K 5% 1/10W R6531 1-246-035-91 RES-CHIP 4.7K 5% 1/10W R8013 1-216-039-91 RES-CHIP 3.3K 5% 1/10W R6532 1-246-073-91 RES-CHIP 10K 5% 1/10W R8016 1-216-089-91 RES-CHIP 3.3K 5% 1/10W R6533 1-216-073-91 RES-CHIP 10K 5% 1/10W R8017 1-216-089-91	R6524	1-216-295-91	SHORT					R8006	1-216-105-91	RES-CHIP			
R6526 1-202-933-61 FUSIBLE RES-CHIP 0.1 10% 12W R6527 126-081-00 RES-CHIP RES-CHIP 22K 5% 1/10W R6528 1-216-093-91 RES-CHIP 20K 5% 1/10W R6528 1-216-093-91 RES-CHIP 20K 5% 1/10W R6528 1-216-015-91 RES-CHIP 20K 5% 1/10W R6528 1-216-015-91 RES-CHIP 20K 5% 1/10W R6528 1-216-015-91 RES-CHIP 20K 5% 1/10W R6529 1-226-015-91 RES-CHIP 20K 5% 1/10W R6521 1-226-015-91 RES-CHIP 3.3K 5% 1/10W R6521 1-226-015-91 RES-CHIP 3.3K 5% 1/10W R6521 1-226-015-91 RES-CHIP 20K 5% 1/10W R6521 1-226-015-91 RES-CHIP 10K 5% 1/10W R6521 1-226-015-91 RES-C	R6525	1-216-041-00	RES-CHIP	470	5%	1/10W		R8007	1-216-089-91	RES-CHIP	47K	5%	1/10W
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R6528 1-216-025-11 RES-CHIP 100 5% 1/10W R8010 1-216-105-91 RES-CHIP 220K 5% 1/10W R6529 1-249-393-11 CARBON 10 5% 1/4W R8011 1-216-105-91 RES-CHIP 220K 5% 1/10W R6531 1-249-393-11 CARBON 10 5% 1/4W R8016 1-216-295-91 SHORT R6532 1-216-073-91 RES-CHIP 10K 5% 1/10W R8017 1-216-081-91 RES-CHIP 3JK 5% 1/10W R6533 1-216-073-91 RES-CHIP 10K 5% 1/10W R8018 1-216-081-90 RES-CHIP 3JK 5% 1/10W R8018 1-216-081-00 RES-CHIP 2JK 5% 1/10W R6534 1-216-085-91 RES-CHIP 3JK 5% 1/10W R8019 1-216-081-00 RES-CHIP 47K 5% 1/10W R6535 1-216-073-91 RES-CHIP 10K 5% 1/								R8009	1-216-105-91	RES-CHIP	220K	5%	1/10W
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R6539 1-215-900-11 METAL OXIDE 22K 5% 2W R8024 1-216-073-91 RES-CHIP 10K 5% 1/10W R6540 1-216-049-11 RES-CHIP 1K 5% 1/10W R8025 1-208-826-11 METAL CHIP 68K 0.50% 1/10W R6541 1-216-077-91 RES-CHIP 15K 5% 1/10W R8026 1-216-105-91 RES-CHIP 220K 5% 1/10W R6542 1-216-049-11 RES-CHIP 1K 5% 1/10W R8026 1-216-105-91 RES-CHIP 220K 5% 1/10W R6543 1-208-842-11 METAL CHIP 330K 0.50% 1/10W R8028 1-208-818-11 METAL CHIP 33K 0.50% 1/10W R6543 1-208-842-11 METAL CHIP 330K 0.50% 1/10W R8028 1-208-818-11 METAL CHIP 33K 0.50% 1/10W R6547 1-216-053-00 RES-CHIP 1.5K 5% 1/10W R8030 1-208-830-11 METAL CHIP 100K 0.50% 1/10W R6550 1-216-065-91 RES-CHIP 4.7K 5% 1/10W R8030 1-208-830-11 METAL CHIP 100K 0.50% 1/10W R6552 1-216-081-00 RES-CHIP 22K 5% 1/10W R8031 1-208-830-11 METAL CHIP 100K 0.50% 1/10W R6553 1-216-109-00 RES-CHIP 22K 5% 1/10W R8033 1-208-781-11 METAL CHIP 910 0.50% 1/10W R8035 1-208-804-11 METAL CHIP 8.2K 0.50% 1/10W R8035 1-208-804-11 METAL CHIP 8.2K 0.50% 1/10W R8035 1-208-804-11 METAL CHIP 8.2K 0.50% 1/10W		1-216-073-91				1/10W							
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R6540 1-216-049-11 RES-CHIP 1K 5% 1/10W R8025 1-208-826-11 METAL CHIP 68K 0.50% 1/10W R6541 1-216-077-91 RES-CHIP 15K 5% 1/10W R8026 1-216-105-91 RES-CHIP 220K 5% 1/10W R6542 1-216-049-11 RES-CHIP 1K 5% 1/10W R8027 1-208-826-11 METAL CHIP 68K 0.50% 1/10W R6543 1-208-842-11 METAL CHIP 33K 0.50% 1/10W R8028 1-208-826-11 METAL CHIP 68K 0.50% 1/10W R6544 1-216-295-91 SHORT R8028 1-208-826-11 METAL CHIP 33K 0.50% 1/10W R6547 1-216-053-00 RES-CHIP 1.5K 5% 1/10W R8030 1-208-826-11 METAL CHIP 68K 0.50% 1/10W R6550 1-216-065-91 RES-CHIP 4.7K 5% 1/10W R8031 1-208-830-11 METAL CHIP 100K	R6539	1-215-900-11	METAL OXIDE	22K	5%	2W		R8024	1-216-073-91	RES-CHIP	10K	5%	1/10W
R6541 1-216-077-91 RES-CHIP 15K 5% 1/10W R8026 1-216-105-91 RES-CHIP 220K 5% 1/10W R6542 1-216-049-11 RES-CHIP 1K 5% 1/10W R8027 1-208-826-11 METAL CHIP 68K 0.50% 1/10W R6543 1-208-842-11 METAL CHIP 330K 0.50% 1/10W R8028 1-208-826-11 METAL CHIP 33K 0.50% 1/10W R6544 1-216-295-91 SHORT R8029 1-208-826-11 METAL CHIP 68K 0.50% 1/10W R6550 1-216-053-00 RES-CHIP 1.5K 5% 1/10W R8030 1-208-830-11 METAL CHIP 100K 0.50% 1/10W R6552 1-216-081-00 RES-CHIP 22K 5% 1/10W R8031 1-208-830-11 METAL CHIP 10K 5% 1/10W R6553 1-216-109-00 RES-CHIP 330K 5% 1/10W R8032 1-216-073-91 RES-CHIP 10K <td></td>													
R6542 1-216-049-11 RES-CHIP 1K 5% 1/10W R8027 1-208-826-11 METAL CHIP 68K 0.50% 1/10W R8028 1-208-818-11 METAL CHIP 33K 0.50% 1/10W R8028 1-208-818-11 METAL CHIP 33K 0.50% 1/10W R8028 1-208-818-11 METAL CHIP 33K 0.50% 1/10W R8028 1-208-826-11 METAL CHIP 33K 0.50% 1/10W R8028 1-208-826-11 METAL CHIP 68K 0.50% 1/10W R8029 1-208-826-11 METAL CHIP 68K 0.50% 1/10W R8030 1-208-830-11 METAL CHIP 100K 0.50% 1/10W R8030 1-208-830-11 METAL CHIP 100K 0.50% 1/10W R8050 1-216-065-91 RES-CHIP 4.7K 5% 1/10W R8031 1-208-830-11 METAL CHIP 100K 0.50% 1/10W R8052 1-216-081-00 RES-CHIP 22K 5% 1/10W R8032 1-216-073-91 RES-CHIP 10K 5% 1/10W R8033 1-208-781-11 METAL CHIP 910 0.50% 1/10W R8033 1-208-781-11 METAL CHIP 910 0.50% 1/10W R8035 1-216-097-11 RES-CHIP 100K 5% 1/10W R8035 1-208-804-11 METAL CHIP 8.2K 0.50% 1/10W R8035 1-208-804-11 METAL CHIP 8.2K 0.50% 1/10W													
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R6544 1-216-295-91 SHORT R6547 1-216-053-00 RES-CHIP 1.5K 5% 1/10W R6550 1-216-065-91 RES-CHIP 4.7K 5% 1/10W R6552 1-216-081-00 RES-CHIP 22K 5% 1/10W R6553 1-216-109-00 RES-CHIP 330K 5% 1/10W R6556 1-217-625-00 METAL R6556 1-217-625-00 METAL R6557 1-216-097-11 RES-CHIP 100K 5% 1/10W R6557 1-216-097-11 RES-CHIP 100K 5% 1/10W R6558 1-216-097-11 RES-CHIP 100K 5% 1/10W R8034 1-216-091-00 RES-CHIP 56K 5% 1/10W R8035 1-208-804-11 METAL CHIP 56K 5% 1/10W R8036 1-216-091-00 RES-CHIP 56K 5% 1/10W R8037 1-216-091-00 RES-CHIP 56K 5% 1/10W R8038 1-208-804-11 METAL CHIP 8.2K 0.50% 1/10W													
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R6547 1-216-053-00 RES-CHIP 1.5K 5% 1/10W R8030 1-208-830-11 METAL CHIP 100K 0.50% 1/10W R80550 1-216-065-91 RES-CHIP 4.7K 5% 1/10W R8031 1-208-830-11 METAL CHIP 100K 0.50% 1/10W R80552 1-216-081-00 RES-CHIP 22K 5% 1/10W R8032 1-216-073-91 RES-CHIP 10K 5% 1/10W R8053 1-208-781-11 METAL CHIP 910 0.50% 1/10W R80553 1-216-109-00 RES-CHIP 330K 5% 1/10W R8033 1-208-781-11 METAL CHIP 910 0.50% 1/10W R80566 1-217-625-00 METAL 0.05 10% 2W R8034 1-216-091-00 RES-CHIP 56K 5% 1/10W R80557 1-216-097-11 RES-CHIP 100K 5.50% 1/10W R8033 1-208-804-11 METAL CHIP 8.2K 0.50% 1/10W R8035 1-208-804-11 METAL CHIP 8.2K 0.50% 1/10W	R6544	1-216-295-91	SHORT					R8029	1-208-826-11	METAL CHIP	68K	0.50%	1/10W
R6550 1-216-065-91 RES-CHIP 4.7K 5% 1/10W R8031 1-208-830-11 METAL CHIP 100K 0.50% 1/10W R6552 1-216-081-00 RES-CHIP 22K 5% 1/10W R8032 1-216-073-91 RES-CHIP 10K 5% 1/10W R6553 1-216-109-00 RES-CHIP 330K 5% 1/10W R8033 1-208-781-11 METAL CHIP 910 0.50% 1/10W R6556 1-217-625-00 METAL 0.05 10% 2W R8034 1-216-091-00 RES-CHIP 56K 5% 1/10W R6557 1-216-097-11 RES-CHIP 100K 5% 1/10W A R8034 1-216-091-00 RES-CHIP 56K 5% 1/10W				1.5K	5%	1/10W							
R6552 1-216-081-00 RES-CHIP 22K 5% 1/10W R8032 1-216-073-91 RES-CHIP 10K 5% 1/10W R8053 1-216-109-00 RES-CHIP 330K 5% 1/10W R8033 1-208-781-11 METAL CHIP 910 0.50% 1/10W R8056 1-217-625-00 METAL 0.05 10% 2W R8034 1-216-091-00 RES-CHIP 56K 5% 1/10W R8057 1-216-097-11 RES-CHIP 100K 5% 1/10W R8035 1-208-804-11 METAL CHIP 8.2K 0.50% 1/10W													
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R6556 1-217-625-00 METAL 0.05 10% 2W R8034 1-216-091-00 RES-CHIP 56K 5% 1/10W R6557 1-216-097-11 RES-CHIP 100K 5% 1/10W R8035 1-208-804-11 METAL CHIP 8.2K 0.50% 1/10W													
R6557 1-216-097-11 RES-CHIP 100K 5% 1/10W A R8035 1-208-804-11 METAL CHIP 8.2K 0.50% 1/10W	K6553	1-276-709-00	KES-CHIP	330K	5%	1/10W		KOUJJ	1-200-701-11	IVIE IAL UMIP	910	U.5U%	1/1044
R6557 1-216-097-11 RES-CHIP 100K 5% 1/10W A R8035 1-208-804-11 METAL CHIP 8.2K 0.50% 1/10W	R6556	1-217-625-00	METAL	0.05	10%	2W		R8034	1-216-091-00	RES-CHIP	56K	5%	1/10W
							<u>^</u>	R8035	1-208-804-11	METAL CHIP	8.2K	0.50%	1/10W
	R6583	1-216-077-91	RES-CHIP	15K	5%	1/10W	<u></u>		1-215-444-00	METAL	9.1K	1%	1/4W

A component identified by this symbol indicates that it has been carefully factory-selected to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.



REF. NO.	PART NO.	DESCRIPTION	VALUE	S		REF. NO.	PART NO.	DESCRIPTION	VALU	ES	
⚠ R8037	1-215-444-00	METAL	9.1K	1%	1/4W	R8101	1-216-101-00	RES-CHIP	150K	5%	1/10W
						R8102	1-216-081-00	RES-CHIP	22K	5%	1/10W
⚠ R8038	1-215-444-00	METAL	9.1K	1%	1/4W	R8103	1-216-069-00	RES-CHIP	6.8K	5%	1/10W
⚠ R8039	1-215-444-00	METAL	9.1K	1%	1/4W	R8104	1-216-089-91	RES-CHIP	47K	5%	1/10W
⚠ R8040	1-215-444-00	METAL	9.1K	1%	1/4W	R8108	1-216-097-11	RES-CHIP	100K	5%	1/10W
R8041	1-208-782-11	METAL CHIP	1K	0.50%	1/10W	R8109	1-215-922-11	METAL OXIDE	6.8K	5%	3W
R8042	1-208-806-11	METAL CHIP	10K	0.50%	1/10W						
R8043	1-216-349-00	METAL OXIDE	1	5%	1/10 VV	R8111	1-215-922-11	METAL OXIDE	6.8K	5%	3W
R8044	1-208-837-11	METAL CHIP	200K		1/10W	R8112	1-216-097-11	RES-CHIP	100K	5%	1/10W
						R8113	1-216-117-00	RES-CHIP	680K	5%	1/10W
R8047	1-216-097-11	RES-CHIP	100K	5%	1/10W	R8114	1-215-922-11	METAL OXIDE	6.8K	5%	3W
R8049	1-208-758-11	METAL CHIP	100	0.50%	1/10W	R8115	1-216-049-11	RES-CHIP	1K	5%	1/10W
R8050	1-211-964-11	METAL CHIP	33	0.50%	1/10W	D0440	4 040 400 04	METAL OVIDE	0.014	E0/	014/
R8051	1-220-926-11	FUSIBLE	0.47	10%	1/2W	R8116	1-216-486-21	METAL OXIDE	8.2K	5%	3W
R8053	1-208-842-11	METAL CHIP	330K	0.50%	1/10W	R8117	1-216-097-11	RES-CHIP	100K	5%	1/10W
R8054	1-208-842-11	METAL CHIP	330K	0.50%	1/10W	R8118	1-216-085-91	RES-CHIP	33K	5%	1/10W
R8055	1-208-842-11	METAL CHIP	330K		1/10W	R8119	1-216-486-21	METAL OXIDE	8.2K	5%	3W
1.0000	. 200 0 . 2	0		0.0070	.,	R8123	1-216-025-11	RES-CHIP	100	5%	1/10W
R8056	1-208-804-11	METAL CHIP	8.2K		1/10W	R8124	1-216-073-91	RES-CHIP	10K	5%	1/10W
R8057	1-208-809-11	METAL CHIP	13K		1/10W	R8125	1-216-001-00	RES-CHIP	10	5%	1/10W
R8058	1-249-393-11	CARBON	10	5%	1/4W	R8126	1-216-001-00	RES-CHIP	10	5%	1/10W
R8059	1-216-295-91	SHORT				R8127		SHORT	10	J /0	1/1000
R8060	1-208-774-11	METAL CHIP	470	0.50%	1/10W	R8127 R8137	1-216-295-91 1-249-417-11	CARBON	1K	5%	1/4W
R8061	1-249-393-11	CARBON	10	5%	1/4W	110101	1210 111 11	5/11/25/1V		070	.,
R8062	1-216-073-91	RES-CHIP	10K	5%	1/4VV 1/10W	R8144	1-216-025-11	RES-CHIP	100	5%	1/10W
R8063	1-216-073-91	RES-CHIP	10K	5%	1/10W	R8145	1-216-025-11	RES-CHIP	100	5%	1/10W
						R8146	1-216-049-11	RES-CHIP	1K	5%	1/10W
R8065	1-216-089-91	RES-CHIP	47K	5%	1/10W	R8147	1-208-826-11	METAL CHIP	68K		1/10W
R8066	1-216-049-11	RES-CHIP	1K	5%	1/10W	R8148	1-208-826-11	METAL CHIP	68K		1/10W
R8068	1-216-295-91	SHORT				D0440	4 000 000 44	METAL OLUB	471/	0.500/	4.14.0\\\
R8069	1-249-419-11	CARBON	1.5K	5%	1/4W	R8149	1-208-822-11	METAL CHIP	47K		1/10W
R8070	1-217-611-00	METAL	0.1	10%	2W	R8150	1-216-091-00	RES-CHIP	56K	5%	1/10W
R8071	1-216-073-91	RES-CHIP	10K	5%	1/10W	R8151	1-216-091-00	RES-CHIP	56K	5%	1/10W
R8072	1-208-782-11	METAL CHIP	1K	0.50%	1/10W	R8152	1-216-091-00	RES-CHIP	56K	5%	1/10W
						R8199	1-249-389-11	CARBON	4.7	5%	1/4W
R8073	1-208-790-11	METAL CHIP	2.2K		1/10W		VARIABLE RESIS	STOR .			
R8074	1-208-793-11	METAL CHIP	3K		1/10W	↑ D V0004	4 005 000 04	RES, VAR, ADJ, CERM	AFT	2017	
R8077 R8078	1-208-838-91 1-208-838-91	METAL CHIP METAL CHIP	220K 220K		1/10W 1/10W	⚠ RV80001	1-225-630-91	RES, VAR, ADJ, CERI		20K 2K	
R8080	1-249-431-11	CARBON	15K	5%	1/4W			,,,			
							RELAY				
R8081 R8082	1-249-377-11 1-216-133-91	CARBON RES-CHIP	0.47 3.3M	5% 5%	1/4W 1/10W	⚠ RY6501	1-755-395-11	RELAY (AC POWER)			
R8085	1-219-749-91	CARBON	3.3M 10K	5% 5%	1/10VV 1/2W	⚠ RY6502	1-755-214-11	RELAY, AC POWER			
R8086	1-219-743-31	CARBON	47K	5%	1/2W		SPARK GAP				
R8087	1-216-295-91	SHORT	1713	J /0	.,						
110001	1 210 200 01	CHOIL				SG8002	1-517-499-21	GAP, SPARK			
R8089	1-216-089-91	RES-CHIP	47K	5%	1/10W	SG8005	1-517-499-21	GAP, SPARK			
R8091	1-215-485-00	METAL	470K	1%	1/4W	1	TRANSFORMER				
R8093	1-216-101-00	RES-CHIP	150K	5%	1/10W		INCHOLOUMEN				
R8095	1-215-485-00	METAL	470K	1%	1/4W	T5001	1-435-621-11	TRANSFORMER, HO	RIZONTAL	OUTPUT	
R8096	1-216-295-91	SHORT		. 70	.,	T5002	1-435-636-11	TRANSFORMER, HO			
R8098	1-249-441-11	CARBON	100K	5%	1/4W	<u> </u>	1-435-576-12	TRANSFORMER, COI			
R8099	1-249-441-11	CARBON	100K	5%	1/4VV 1/4W	<u> </u>	1-453-350-21	FBT ASSY NX-6000//J		,	
R8100	1-249-441-11	CARBON	100K	5%	1/4VV 1/4W	T8002	1-433-934-11	TRANSFORMER, FEF)	
1.0100	1-640-441-11	OUINDOM	1001	J /0	1/ 7 ¥ ¥				(5. 1	,	



_	REF. NO.	PART NO.	DESCRIPTION	VALUE	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUI	ES			
		THERMISTOR						C2414	1-126-791-11	ELECT	10µF	20%	16V		
	TUE004		THERMOTOR					C2415	1-126-964-11	ELECT	10µF	20%	50V		
	TH5001 TH5002	1-800-193-00 1-807-796-11	THERMISTOR THERMISTOR						CONNECTOR						
	1113002	1-007-790-11	HERWISTOR				*	CN2401	1-785-303-11	CONNECTOR, DIN (PL	IIG) MP				
L	1 R							ONZTOI	<u>DIODE</u>	CONNECTOR, DIN (I E	00) 041				
								D2401	8-719-977-28	DIODE UDZSTE-1710B					
*		A-1372-904-A	HB(COM) MOUNTED P	C BOARD				D2402 D2403	8-719-977-28 8-719-977-28	DIODE UDZSTE-1710E DIODE UDZSTE-1710E					
		CAPACITOR						D2405	8-719-977-28	DIODE UDZSTE-1710B					
	C4504	1-126-964-11	ELECT	10µF	20%	50V		D2406	8-719-977-28	DIODE UDZSTE-1710B					
	C4505	1-126-964-11	ELECT	10μF	20%	50V									
	0.000				_0,0			D2407	8-719-977-28	DIODE UDZSTE-1710B					
		CONNECTOR						D2409 D2410	8-719-977-28 8-719-800-76	DIODE UDZSTE-1710B DIODE MA153-TX	i				
	CN4503	1-764-334-11	PLUG, CONNECTOR 11	Р				D2410	8-719-977-28	DIODE UDZSTE-1710B					
		DIODE						D2412	8-719-800-76	DIODE MA153-TX					
	D4E02		DIODE LIDZOTE 1710D					D2413	8-719-800-76	DIODE MA153-TX					
	D4503 D4505	8-719-977-28 8-719-977-28	DIODE UDZSTE-1710B DIODE UDZSTE-1710B					D2413 D2414	8-719-800-76	DIODE MA153-TX					
	D4506	8-719-977-28	DIODE UDZSTE-1710B					D2415	8-719-800-76	DIODE MA153-TX					
								D2416	8-719-800-76	DIODE MA153-TX					
		<u>FILTER</u>						D2423	8-719-800-76	DIODE MA153-TX					
	FL4501	1-239-583-21	FILTER, EMI					D2424	8-719-800-76	DIODE MA153-TX					
	FL4502 FL4503	1-239-583-21 1-239-583-21	FILTER, EMI FILTER, EMI					D2425	8-719-800-76	DIODE MA153-TX					
	1 24000		TILILIX, LIVII					D2426	8-719-800-76	DIODE MA153-TX					
		<u>JACK</u>						D2427	8-719-800-76	DIODE MA153-TX					
	J4501	1-770-053-11	TERMINAL	BLOCK,	S(LIGHT	ANGLE)		D2428	8-719-800-76	DIODE MA153-TX					
		RESISTOR						D2429	8-719-977-28	DIODE UDZSTE-1710B					
	B./500			.=	-0/			D2430	8-719-977-28	DIODE UDZSTE-1710B					
	R4506 R4507	1-216-113-00 1-216-113-00	RES-CHIP RES-CHIP	470K 470K	5% 5%	1/10W 1/10W		D2431 D2432	8-719-977-28 8-719-977-28	DIODE UDZSTE-1710E DIODE UDZSTE-1710E					
	R4509	1-216-113-00	RES-CHIP	470K	5%	1/10W		D2432 D2433	8-719-977-28	DIODE UDZSTE-1710E					
	R4511	1-216-295-91	SHORT		0,0	.,		D2434	8-719-977-28	DIODE UDZSTE-1710B					
	R4512 R4513	1-216-295-91 1-216-295-91	SHORT SHORT						<u>JACK</u>						
	•		2 -					J2401	1-573-967-12	BLOCK, (S) TERMINAL					
Ш	Ш							J2402	1-750-517-11	JACK BLOCK, PIN 3P					
								J2403	1-750-517-11	JACK BLOCK, PIN 3P					
*		A-1373-817-A	U (COM) MOUNTED PO	BOARD				J2405	1-764-143-11	JACK					
		CAPACITOR						J2406	1-764-143-11	JACK					
	C2405	1-126-964-11	ELECT	10µF	20%	50V	1	J2407 J2408	1-774-358-11 1-774-358-11	JACK BLOCK, PIN JACK BLOCK, PIN					
	C2406	1-126-791-11	ELECT	10μF	20%	16V		J2409	1-750-516-11	JACK BLOCK, PIN 2P					
	C2407	1-126-964-11	ELECT	10µF	20%	50V									
	C2408	1-126-791-11	ELECT	10µF	20%	16V			RESISTOR						
	C2409	1-126-964-11	ELECT	10μF	20%	50V	1	R2401	1-216-113-00	RES-CHIP	470K	5%	1/10W		
	C2410	1-126-964-11	ELECT	10μF	20%	50V	1	R2402	1-216-113-00	RES-CHIP	470K	5%	1/10W		
	C2411	1-126-926-11	ELECT	1000µF	20%	10V	1	R2403	1-216-113-00	RES-CHIP	470K	5%	1/10W		
	C2411	1-126-964-11	ELECT	10μF	20%	50V	1	R2407	1-216-113-00	RES-CHIP	470K	5%	1/10W		
	C2413	1-126-964-11	ELECT	10μF	20%	50V									



_	REF. NO.	PART NO.	DESCRIPTION	VALUES			REI	F. NO.	PART NO.	DESCRIPTION	VALUE	S	
	R2408	1-216-113-00	RES-CHIP	470K	5%	1/10W			<u>SWITCH</u>				
	R2409	1-216-113-00	RES-CHIP	470K	5%	1/10W	000	,	4 700 007 44	CMITCH TACTILE			
	R2428	1-216-113-00	RES-CHIP	470K	5%	1/10W	S02 S03		1-762-837-11 1-762-837-11	SWITCH TACTILE SWITCH TACTILE			
	R2430	1-216-113-00	RES-CHIP	470K	5%	1/10W	S03		1-762-837-11	SWITCH TACTILE			
	R2431	1-216-113-00	RES-CHIP	470K	5%	1/10W	S05		1-762-837-11	SWITCH TACTILE			
	R2432	1-216-113-00	RES-CHIP	470K	5%	1/10W	S05		1-702-037-11	SWITCH TACTILE			
							300	,	1-032-431-21	SWITCHTIACTILL			
	R2433	1-216-113-00	RES-CHIP	470K	5%	1/10W	S07	,	1-692-431-21	SWITCH TACTILE			
	R2434	1-216-021-00	RES-CHIP	68	5%	1/10W	S08		1-692-431-21	SWITCH TACTILE			
	R2435	1-216-295-91	SHORT				S09		1-692-431-21	SWITCH TACTILE			
	R2436	1-216-295-91	SHORT				S10		1-692-431-21	SWITCH TACTILE			
							S11		1-692-431-21	SWITCH TACTILE			
							S12)	1-692-431-21	SWITCH TACTILE			
ΗГ													
]					
*		A-1377-021-A	HA MOUNTED PC BOA	\RD			S						
		CAPACITOR					*		A-1391-048-A	S MOUNTED PC BOAR	n		
	C05	1-126-964-11	ELECT	10µF	20%	50V				3 MICONTED FC BOAR	D		
		CONNECTOR							<u>CAPACITOR</u>				
*			D				C41		1-126-964-11	ELECT	10μF	20%	50V
*	CN01	1-564-515-11	PLUG,CONNECTOR	12P			C41		1-126-964-11	ELECT	10μF	20%	50V
		DIODE					C41		1-126-959-11	ELECT	0.47µF	20%	50V
	B04		DIODE I NIKO (OCCOO)				C41 C41		1-126-959-11 1-126-968-11	ELECT ELECT	0.47μF 100μF	20% 20%	50V 50V
	D01	8-719-070-80	DIODE LNK0120022G				041	100	1-120-900-11	LLLOI	ισομι	20 /0	J0 V
	D02 D07	8-719-070-80 8-719-109-89	DIODE LNK0120022G DIODE RD5.6ES-T1B2				C41	06	1-126-968-11	ELECT	100µF	20%	50V
	טטו	0-7 13-103-03	DIODE ND3.0L3-11D2				C41		1-115-339-11	CERAMIC CHIP	0.1µF	10%	50V
		<u>IC</u>					C41		1-126-964-11	ELECT	10μF	20%	50V
	10404	0.740.040.00	LIVE IC CEV2004 74				C41	09	1-126-964-11	ELECT	10μF	20%	50V
	IC101	8-742-212-20	HYB IC SBX3081-71				C41	10	1-115-340-11	CERAMIC CHIP	0.22µF	10%	25V
		RESISTOR					C41	111	1-163-021-91	CERAMIC CHIP	0.01uE	10%	50V
	R03	1-249-429-11	CARBON	10K	5%	1/4W	C41		1-163-021-91	CERAMIC CHIP	0.01μF 0.0047μF	10%	50V 50V
	R05	1-247-807-31	CARBON	100	5%	1/4W	C41		1-115-340-11	CERAMIC CHIP	0.0047µI 0.22µF	10%	25V
	R07	1-249-409-11	CARBON	220	5%	1/4W	C41		1-163-021-91	CERAMIC CHIP	0.22µr	10%	50V
	R08	1-249-409-11	CARBON	220	5%	1/4W	C41		1-163-017-00	CERAMIC CHIP	0.0047µF		50V
	R09	1-249-433-11	CARBON	22K	5%	1/4W	C41		1-163-017-00	CERAMIC CHIP	0.0047µF		50V
							C41		1-126-968-11	ELECT	100µF	20%	
	R11	1-249-385-11	CARBON	2.2	5%	1/4W			0011150705				
	R12	1-215-445-00	METAL	10K	1%	1/4W			CONNECTOR				
	R14	1-215-437-00	METAL	4.7K	1%	1/4W	CN ²	4101	1-573-299-21	CONNECTOR, BOARD	TO BOARD	10P	
	R15	1-215-431-00	METAL	2.7K	1%	1/4W				•			
	R16	1-215-427-00	METAL	1.8K	1%	1/4W			DIODE				
	R17	1-215-425-00	METAL	1.5K	1%	1/4W	D41		8-719-914-43	DIODE DAN202K-T-146			
	R18	1-215-421-00	METAL	1K	1%	1/4W	D41	02	8-719-914-44	DIODE DAP202K-T-146			
	R19	1-215-419-00	METAL	820	1%	1/4W			<u>IC</u>				
	R20	1-215-415-00	METAL	560	1%	1/4W			<u>10</u>				
	R21	1-215-413-00	METAL	470	1%	1/4W	IC4		8-759-686-15	IC NJM2180M (TE2)			
	R22	1-215-413-00	METAL	470	1%	1/4W	IC4	102	8-759-711-10	IC NJU4066BM-T1			
	R23	1-249-385-11	CARBON	2.2	5%	1/4W	IC4	103	8-752-058-68	IC CXA1315M-T4			



REF. NO.	PART NO.	DESCRIPTION	VALU	ES			REF. NO.	PART NO.	DESCRIPTION	VALUE	S	
	COIL						A /					
L4101	1-408-607-31	INDUCTOR	22µH				\mathcal{N}					
	RESISTOR					-						
R4101	1-216-071-00	RES-CHIP	8.2K	5%	1/10W	*		A-1372-833-A	W MOUNTED PC BO	ARD		
R4102	1-216-071-00	RES-CHIP	8.2K	5%	1/10W							
R4103	1-216-059-00	RES-CHIP	2.7K	5%	1/10W			4-382-854-01	SCREW (M3X8), P, S	W (+)		
R4104	1-216-059-00	RES-CHIP	2.7K	5%	1/10W			048401708				
R4105	1-216-073-91	RES-CHIP	10K	5%	1/10W			CAPACITOR				
				- , ,			C9101	1-107-364-11	MYLAR	0.01µF	10%	200V
R4106	1-216-097-11	RES-CHIP	100K	5%	1/10W		C9102	1-107-364-11	MYLAR	0.01µF	10%	200V
R4107	1-216-097-11	RES-CHIP	100K	5%	1/10W		C9103	1-163-009-91	CERAMIC CHIP	0.001µF	10%	50V
R4108	1-216-069-00	RES-CHIP	6.8K	5%	1/10W		C9104	1-163-009-91	CERAMIC CHIP	0.001µF	10%	50V
R4109	1-216-063-91	RES-CHIP	3.9K	5%	1/10W		C9104	1-104-999-11	MYLAR	0.00 τμι 0.1μF	10%	200V
R4110	1-216-063-91	RES-CHIP	3.9K	5%	1/10W		69100	1-104-999-11	WITLAK	υ. ιμΓ	10 %	200 V
114110	1-210-000-31	INLO-OHIII	3.31	J /0	1/1000		C0106	1 107 667 11	FLECT	2 205	200/	1601/
R4111	1-216-073-91	RES-CHIP	10K	5%	1/10W		C9106 C9107	1-107-667-11	ELECT	2.2µF	20% 20%	160V
			1K	5%				1-126-935-11	ELECT	470µF		16V
R4112	1-216-049-11	RES-CHIP			1/10W		C9108	1-126-935-11	ELECT	470µF	20%	16V
R4113	1-216-091-00	RES-CHIP	56K	5%	1/10W		C9109	1-107-963-11	ELECT	33µF	20%	160V
R4114	1-216-295-91	SHORT					C9112	1-126-933-11	ELECT	100μF	20%	16V
R4115	1-216-295-91	SHORT										
							C9113	1-126-933-11	ELECT	100µF	20%	16V
R4116	1-216-089-91	RES-CHIP	47K	5%	1/10W		C9115	1-126-935-11	ELECT	470µF	20%	6.3V
R4117	1-216-065-91	RES-CHIP	4.7K	5%	1/10W		C9116	1-126-935-11	ELECT	470µF	20%	6.3V
R4118	1-216-055-00	RES-CHIP	1.8K	5%	1/10W		C9117	1-104-999-11	MYLAR	0.1µF	10%	200V
R4119	1-216-065-91	RES-CHIP	4.7K	5%	1/10W							
R4120	1-216-073-91	RES-CHIP	10K	5%	1/10W			CONNECTOR				
						*	CN9101	1-564-506-11	PLUG, CONNECTOR	3P		
R4121	1-216-077-91	RES-CHIP	15K	5%	1/10W	*	CN9102	1-564-515-11	PLUG, CONNECTOR			
R4123	1-216-073-91	RES-CHIP	10K	5%	1/10W	*	CN9103	1-564-506-11	PLUG, CONNECTOR			
R4124	1-216-049-11	RES-CHIP	1K	5%	1/10W	*	CN9104	1-770-747-11	CONNECTOR, BOAR		12P	
R4125	1-216-101-00	RES-CHIP	150K	5%	1/10W		ONUTO	1-110-1-11	CONNECTOR, BOAR	ID TO DOMINE	121	
R4126	1-216-081-00	RES-CHIP	22K	5%	1/10W			DIODE				
R4127	1-216-073-91	RES-CHIP	10K	5%	1/10W		D9101	8-719-924-11	DIODE MTZJ-T-77-22			
R4128	1-216-091-00	RES-CHIP	56K	5%	1/10W		D9102	8-719-924-11	DIODE MTZJ-T-77-22			
R4129	1-216-073-91	RES-CHIP	10K	5%	1/10W		D9103	8-719-404-50	DIODE MA111-TX			
R4130	1-216-053-00	RES-CHIP	1.5K	5%	1/10W		D9104	8-719-404-50	DIODE MA111-TX			
R4131	1-216-129-00	RES-CHIP	2.2M	5%	1/10W		D9105	8-719-404-50	DIODE MA111-TX			
14101	1 210 120 00	INEO OTTII	Z.ZIVI	0 /0	1/1011		D9106	8-719-404-50	DIODE MA111-TX			
R4132	1-216-085-91	RES-CHIP	33K	5%	1/10W		D9107	8-719-510-02	DIODE D1NS4-TR			
R4133	1-216-092-00	RES-CHIP	62K	5%	1/10W							
R4133	1-216-092-00		10K	5% 5%	1/10W			COIL				
R4134 R4135	1-216-073-91	RES-CHIP RES-CHIP	10K 47	5% 5%	1/10W		L9101	1-412-525-31	INDUCTOR	10µH		
R4136	1-216-017-91	RES-CHIP	47 47	5% 5%	1/10W		L9101	1-412-525-31	INDUCTOR	Ιυμπ		
	. 2.0011 01	NEO OTH	17	0 /0	1/ 1011			TRANSISTOR				
							Q9101	8-729-045-05	TRANSISTOR 2SA20	05		
							Q9102	8-729-045-04	TRANSISTOR 2SC55	511		
							Q9103	8-729-422-27	TRANSISTOR 2SD60			
							Q9104	8-729-422-27	TRANSISTOR 2SD60	11A_OPS_TY		
							Q9104 Q9105	8-729-120-28	TRANSISTOR 2SC24		2	
											`	
							Q9106	8-729-424-02	TRANSISTOR 2SB70		5	
							Q9107	8-729-120-28	TRANSISTOR 2SC24		1	
							Q9108	8-729-424-02	TRANSISTOR 2SB70	34-042-1X		

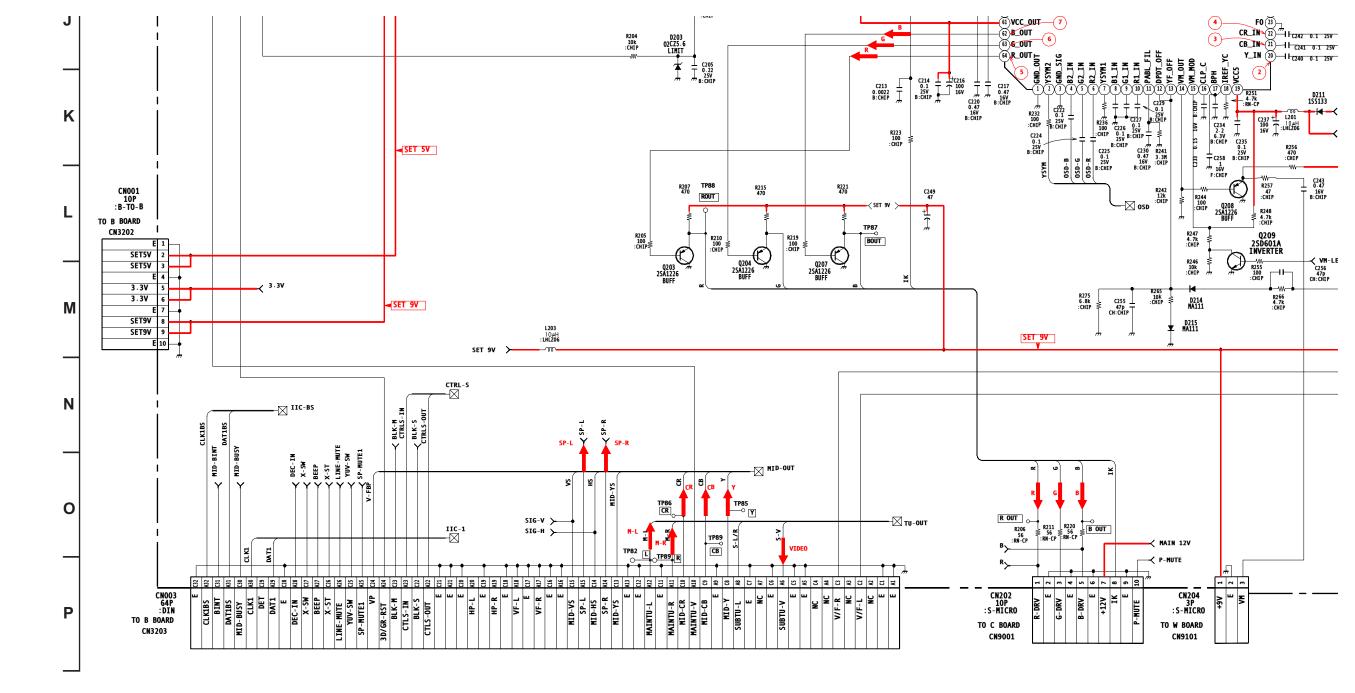


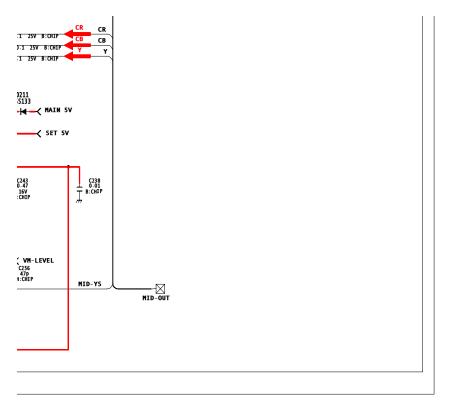
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	RESISTOR							
R9102	1-249-414-11	CARBON	560	5%	1/4W			
R9103	1-249-432-11	CARBON	18K	5%	1/4W		ACCESSORIES	S AND PACKAGING
R9104	1-249-432-11	CARBON	18K	5%	1/4W	*	4-041-426-01	BAG, PROTECTION
R9105	1-249-414-11	CARBON	560	5%	1/4W		4-042-463-01	SHEET, PROTECTION
R9106	1-249-421-11	CARBON	2.2K	5%	1/4W		4-085-012-21	MANUAL, INSTRUCTION
								(KV-40XBR700)
R9107	1-249-421-11	CARBON	2.2K	5%	1/4W		4-085-012-31	MANUAL, INSTRUCTION
R9108	1-260-316-51	CARBON	100	5%	1/2W			(KV-40XBR700-CND)
R9109	1-249-385-11	CARBON	2.2	5%	1/4W	*	4-082-895-01	CUSHION, LOWER
R9110	1-249-385-11	CARBON	2.2	5%	1/4W	*	4-082-894-01	CUSHION, UPPER
R9111	1-249-405-11	CARBON	100	5%	1/4W	*	4-396-077-01	JOINT
R9112	1-215-915-11	METAL OXIDE	470	5%	3W		REMOTE COM	MANDER
R9113	1-216-017-91	RES-CHIP	47	5%	1/10W		KEMOTE COM	
R9114	1-249-425-11	CARBON	4.7K	5%	1/4W		1-476-683-11	REMOTE COMMANDER (RM-Y184)
R9115	1-216-065-91	RES-CHIP	4.7K	5%	1/10W		4-081-888-11	BATTERY COVER FOR (RM-Y184)
R9117	1-216-047-91	RES-CHIP	820	5%	1/10W			
R9118	1-249-405-11	CARBON	100	5%	1/4W			
R9119	1-249-399-11	CARBON	33	5%	1/4W			
R9120	1-247-807-31	CARBON	100	5%	1/4W			
R9121	1-249-409-11	CARBON	220	5%	1/4W			
R9122	1-216-053-00	RES-CHIP	1.5K	5%	1/10W			
R9123	1-249-401-11	CARBON	47	5%	1/4W			
R9124	1-249-401-11	CARBON	47	5%	1/4W			
R9125	1-216-073-91	RES-CHIP	10K	5%	1/10W			
R9126	1-249-395-11	CARBON	15	5%	1/4W			
R9127	1-216-005-00	RES-CHIP	15	5%	1/10W			
	1-216-295-91	SHORT						

Sony Corporation
Sony Technology Center
Technical Services
Service Promotion Department

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V5 214	R B 9 R CK203 10P B-T0-B TO D CMS505	A BOARD TRANSISTOR VOLTAGE LIST B





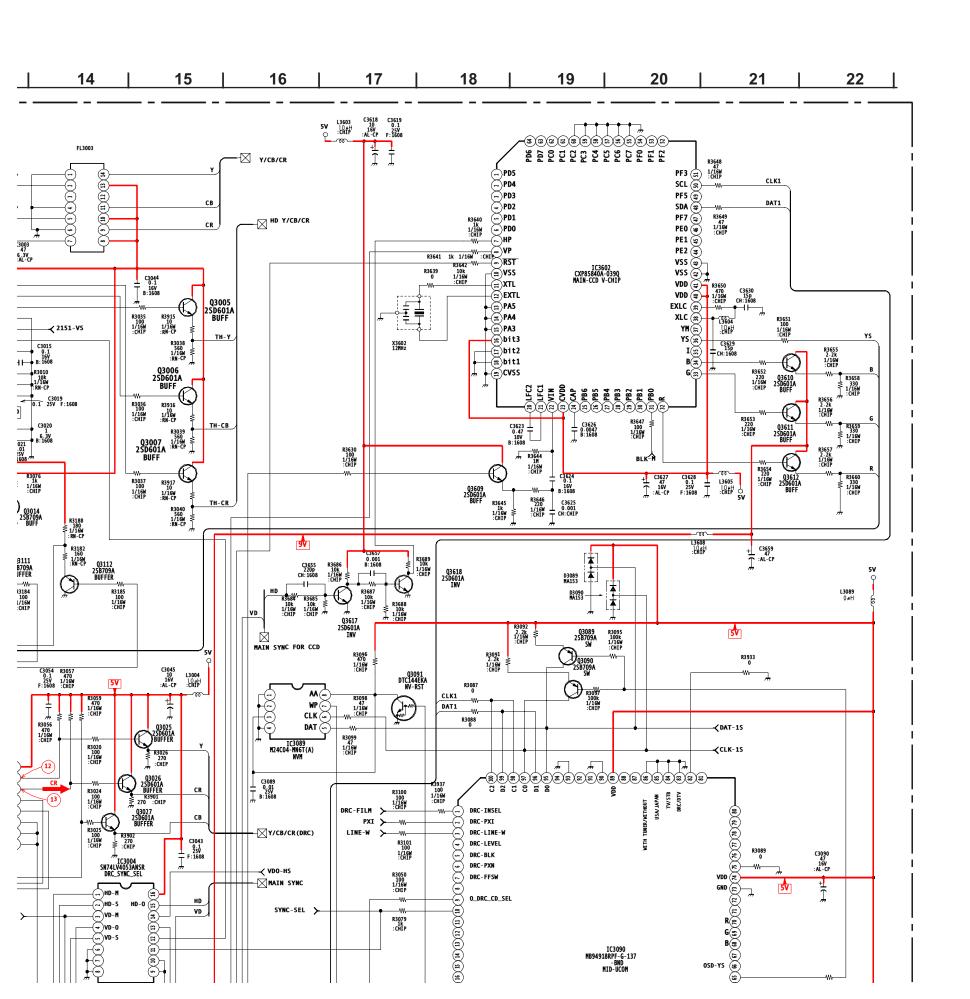
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CRT DRIVE

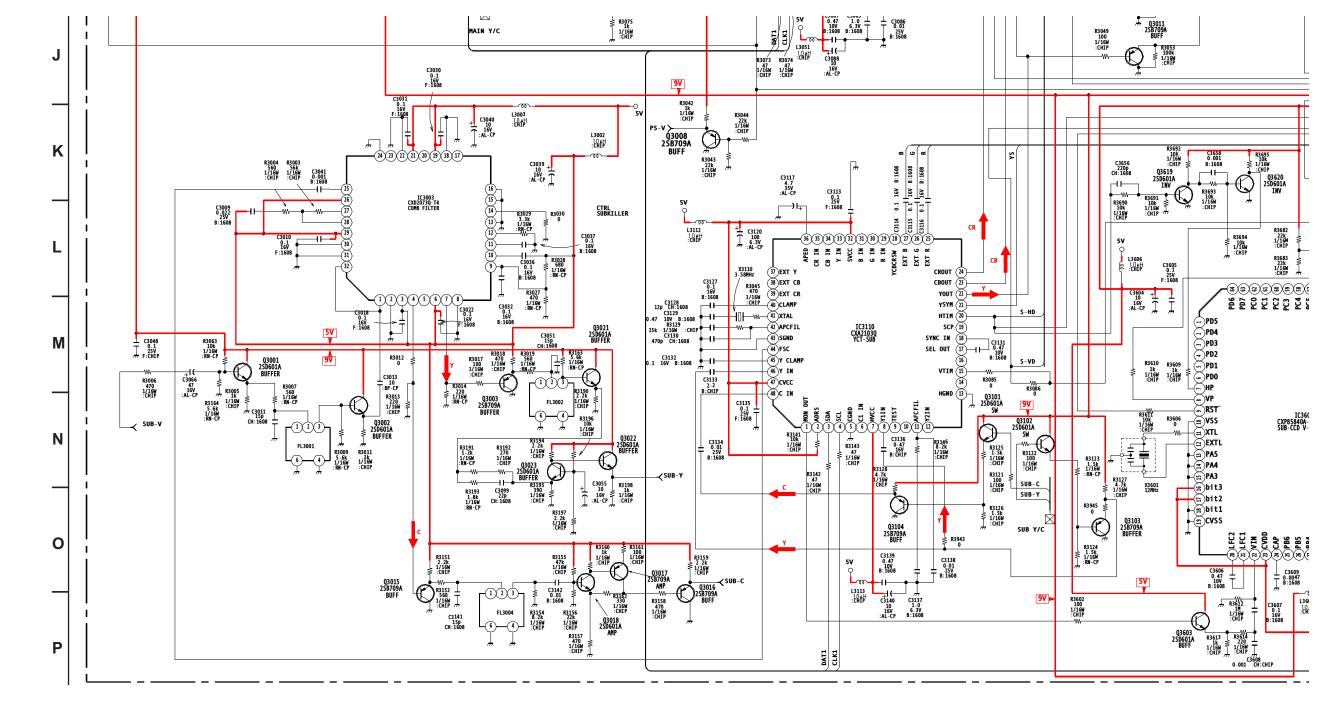
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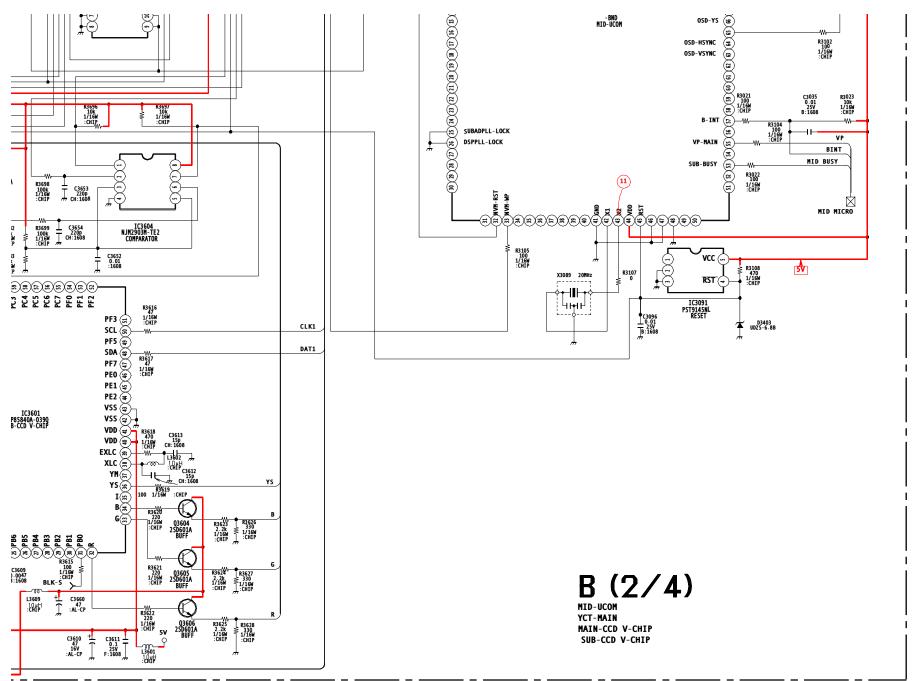
Q211	2.8	11.5	2.3	Q724	0.5	4.6	GND	Q7015	0.0	0.0	GND
Q212	5.6	9.0	5.0	Q726	4.6	0.1	4.6	Q7016	0.0	4.2	GND
Q214	0.0	0.0	GND	Q727	4.6	0.1	4.6		D	G	S
Q216	4.5	GND	3.9	Q728	0.1	4.6	GND	Q6007	150.4	4.7	0.0
Q217	2.2	8.7	3.9	Q729	0.1	4.6	GND	Q6008	303.0	154.6	150.0
Q701	4.7	4.7	5.0	Q730	10.4	0.7	10.2			All voltage	s are in V.

₹ R3075 1k 1/16W :CHIP

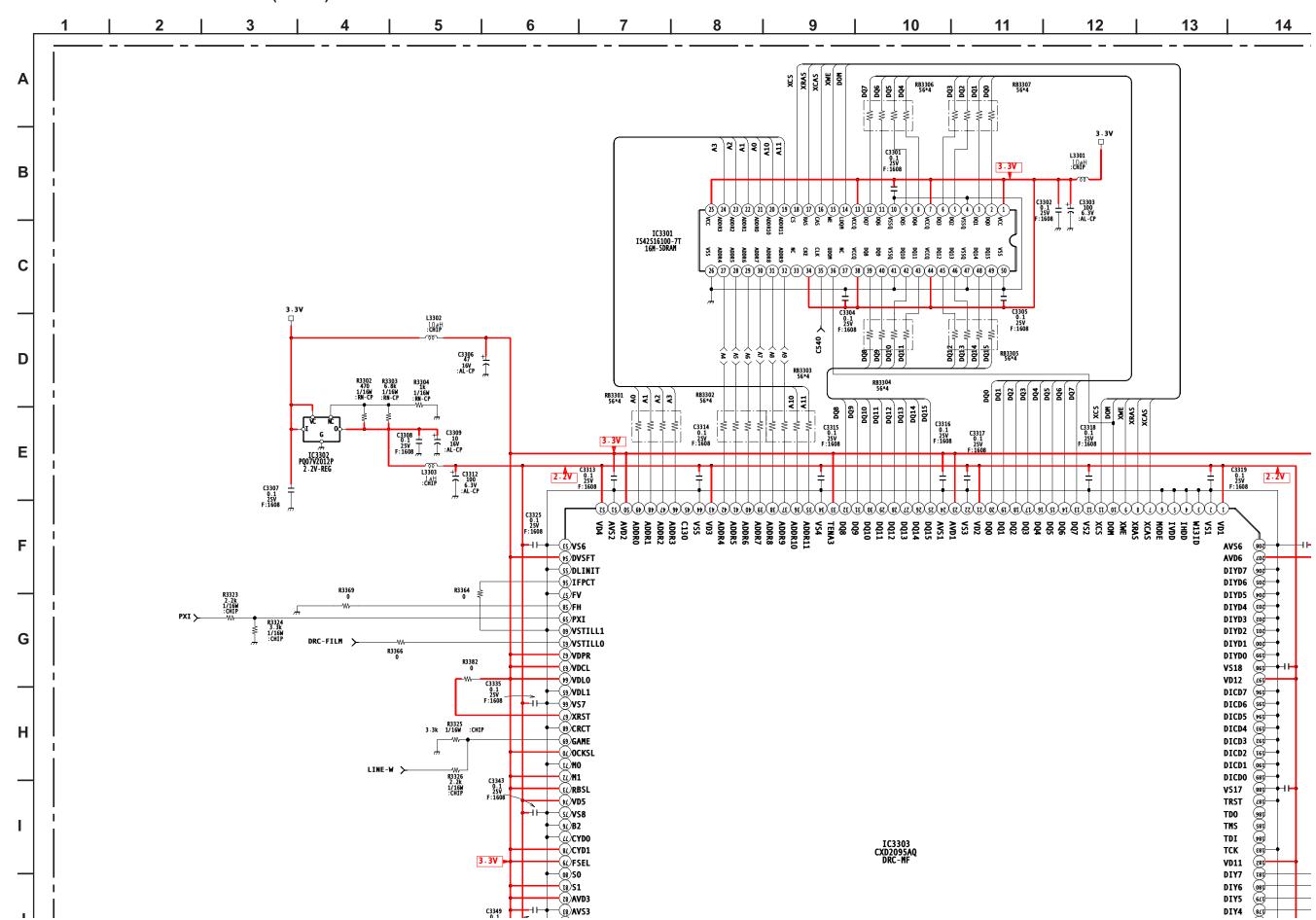


KV-40XBR700

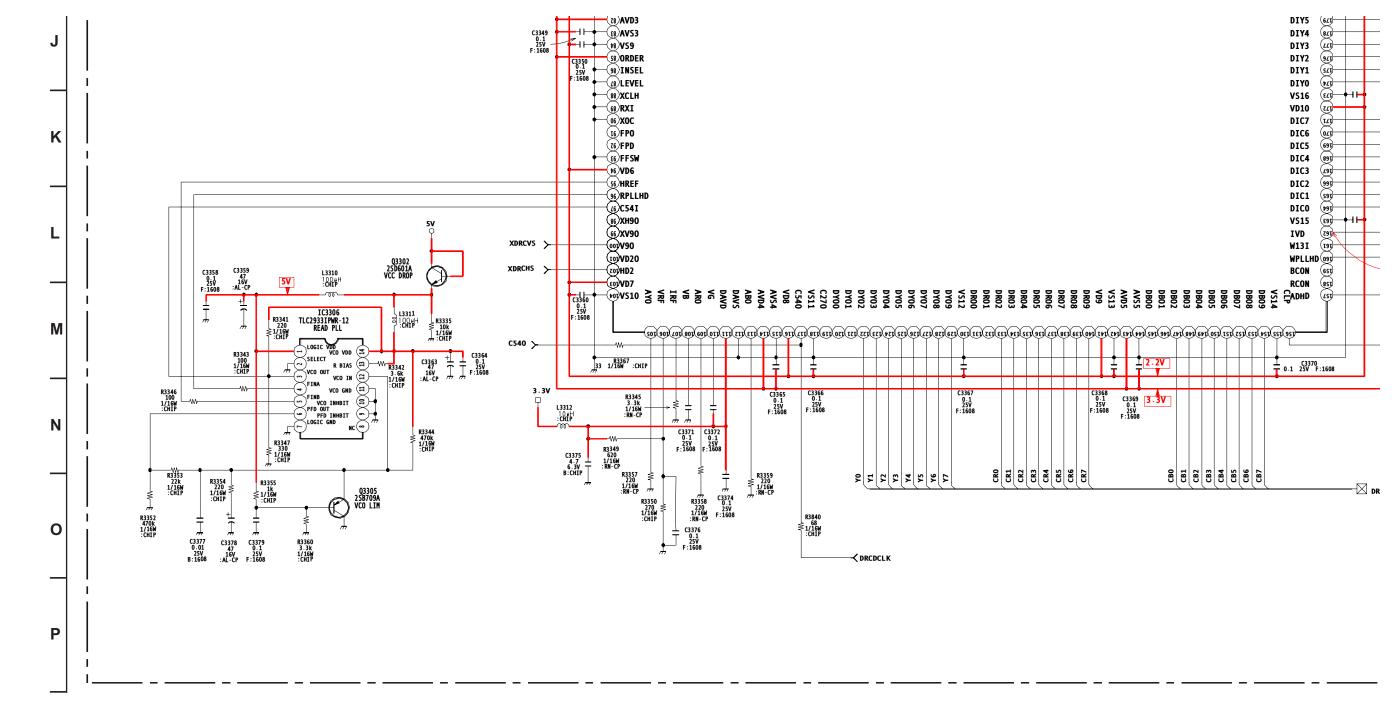


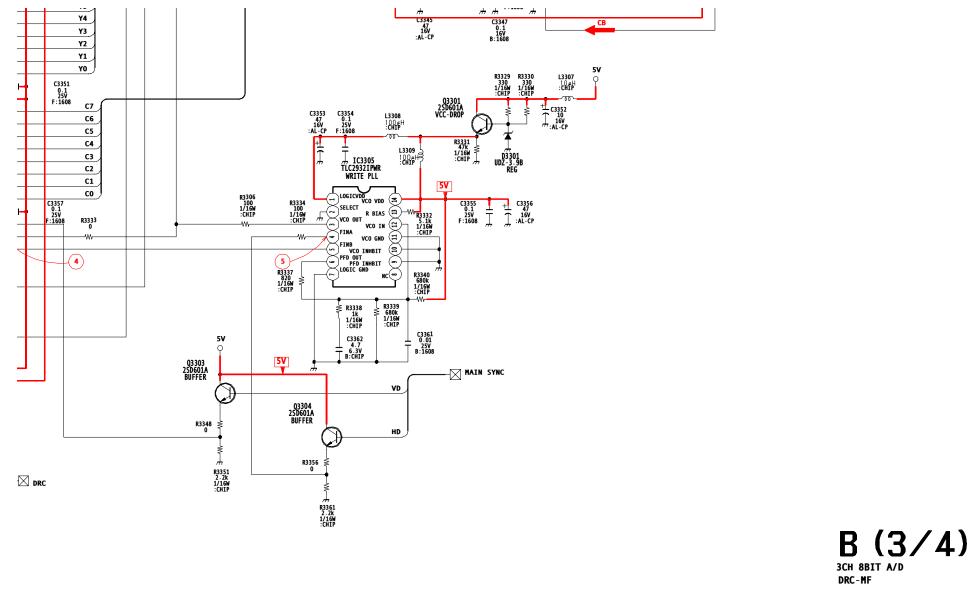


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R3102 100 1/16W :CHIP
C3035 R3023
C3035 R3023 0.01 10k 10 10 10k 8.1608 :CHIP
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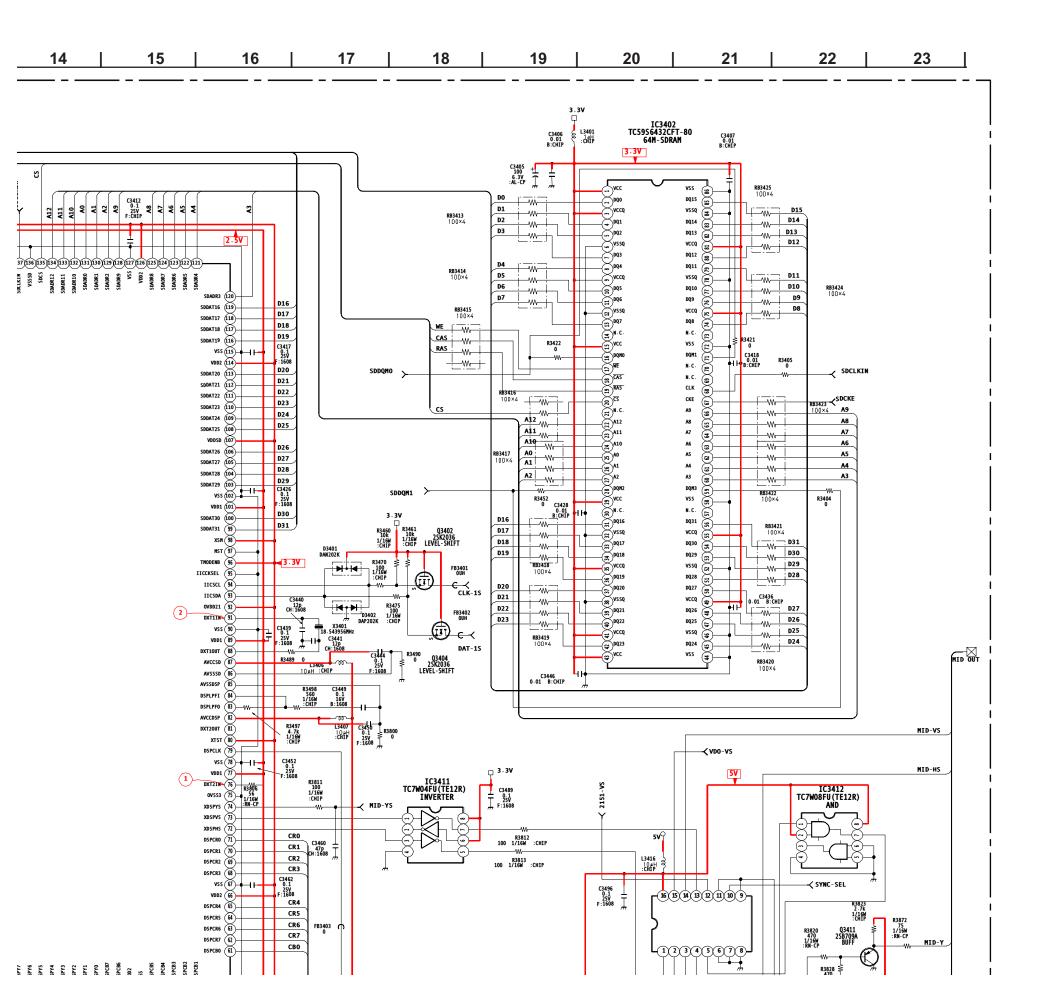


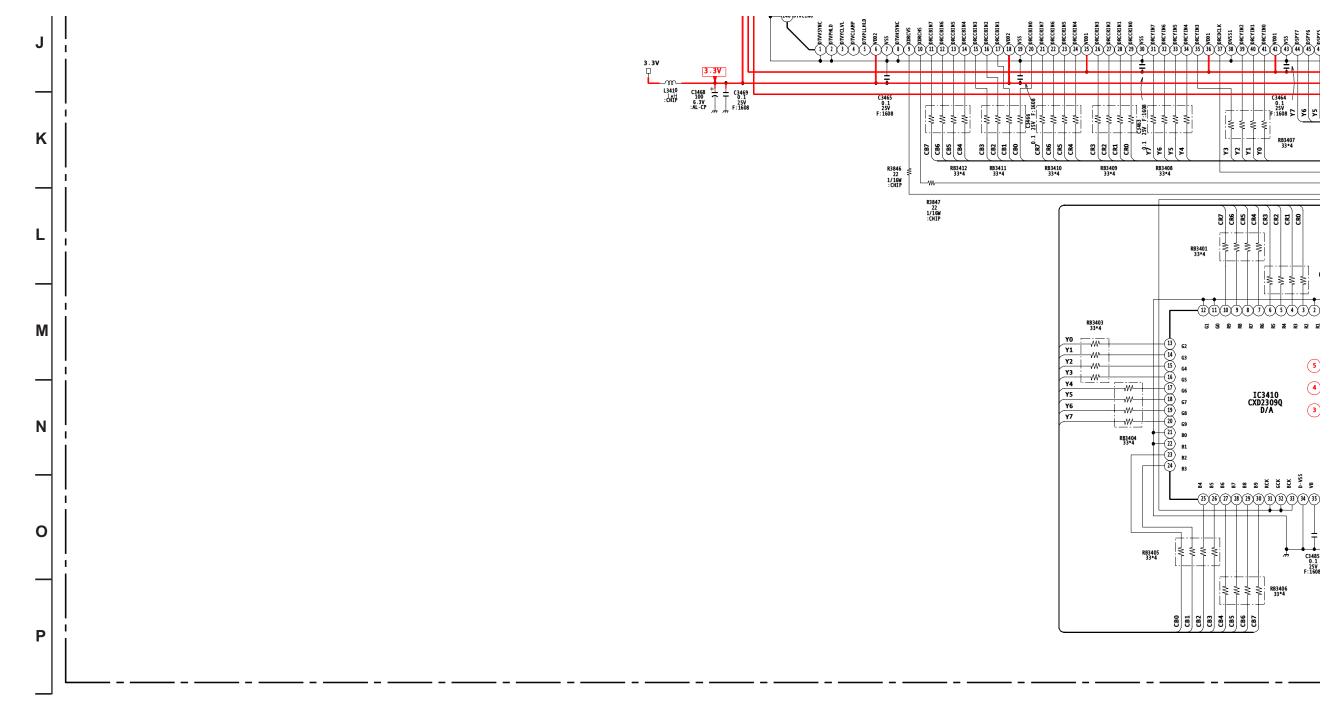
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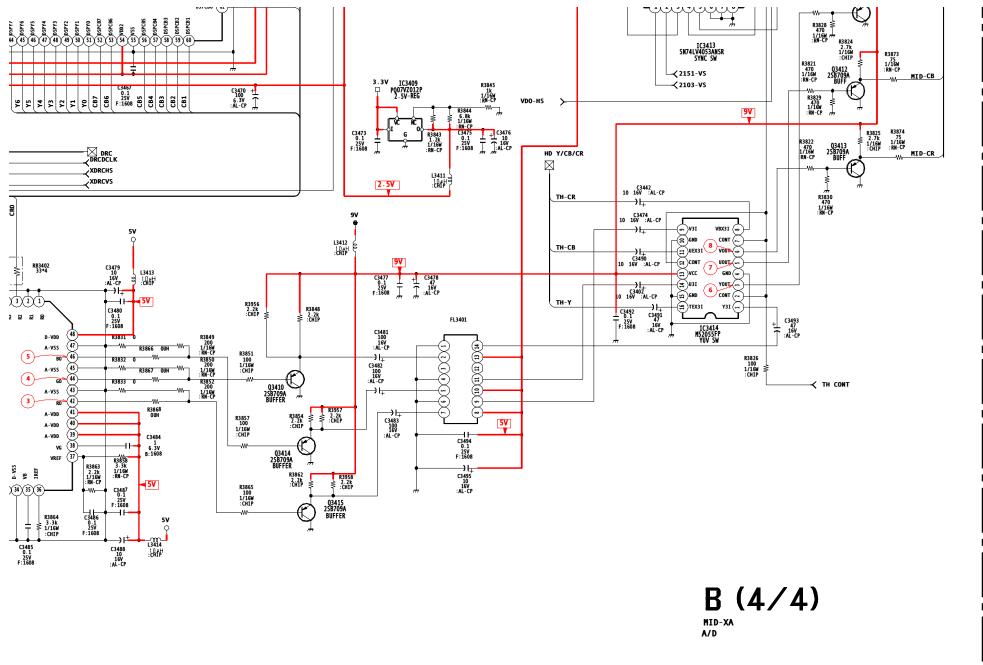




DX1A-919-B

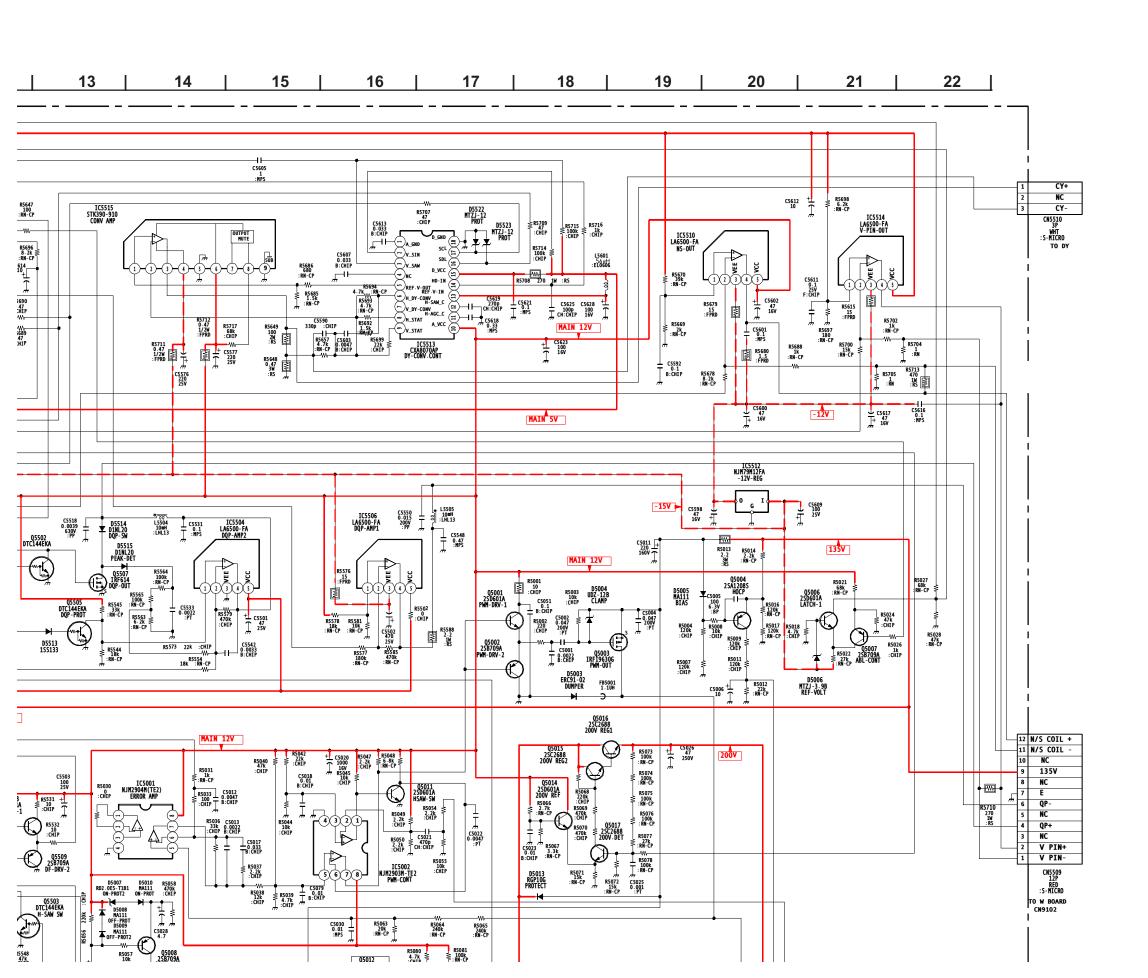


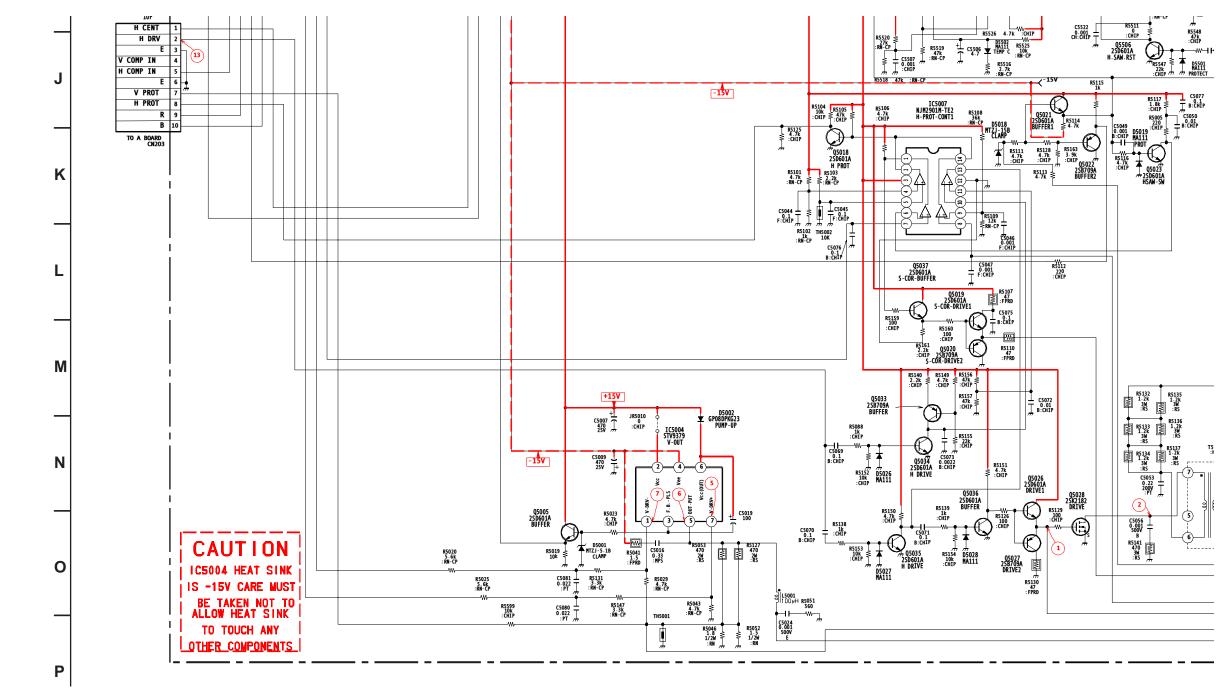


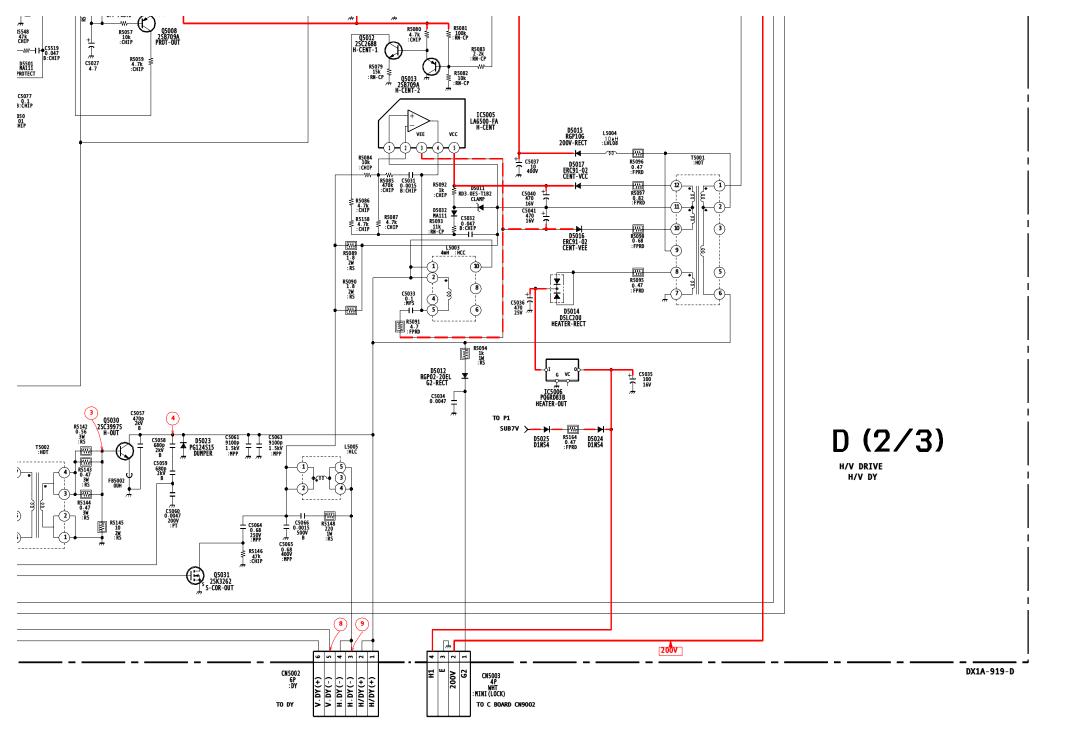


D BOARD SCHEMATIC DIAGRAM (2 OF 3) 10 | 11 | DF PARA > AFC-PLS > +15V +135V >-В R5645 C5587 47k 0.047 1.CHIP B:CHIP W 1 | R5650 47k 2.CHIP TO P1 ✓ MAIN RLY — ✓ MAIN9V D 135V MAIN 12V TO A BOARD CN706 Ε SCP ă FOR CLK1/S CLK DAT1/S DAT F G DAT1/S DAT CLK1/S CLK R5521 R5527 10k 4.7k :CHIP :CHIP CN5503 10P ABL S V TIM Н V DRV+ V DRV-EW DRV DF PARA 9 R5523 47k :RN-CP

H CENT 1







PRINTING THE SERVICE MANUAL

The PDF of this service manual is not designed to be printed from cover to cover. The pages vary in size, and must therefore be printed in sections based on page dimensions.

NON-SCHEMATIC PAGES

Data that does NOT INCLUDE schematic diagrams are formatted to 8.5 x 11 inches and can be printed on standard letter-size and/or A4-sized paper.

SCHEMATIC DIAGRAMS

The schematic diagram pages are provided in two ways, full size and tiled. The full-sized schematic diagrams are formatted on paper sizes between 8.5" x 11" and 18" x 30" depending upon each individual diagram size. Those diagrams that are LARGER than 11" x 17" in full-size mode have been tiled for your convience and can be printed on standard 11" x 17" (tabloid-size) paper, and reassembled.

TO PRINT FULL SIZE SCHEMATIC DIAGRAMS If you have access to a large paper plotter or printer capable of outputting the full-sized diagrams, output as follows: 1) Note the page size(s) of the schematics you want to output as indicated in the middle window at the bottom of the viewing screen.

- 2) Go to the File menu and select Print Set-up. Choose the printer name and driver for your large format printer. Confirm that the printer settings are set to output the indicated page size or larger.
- 3) Close the Print Set Up screen and return to the File menu. Select "Print..." Input the page number of the schematic(s) you want to print in the print range window. Choose OK.

TO PRINT TILED VERSION OF SCHEMATICS -

Schematic pages that are larger than 11" x 17" full-size are provided in a 11" x 17" printable tiled format near the end of the document. These can be printed to tabloid-sized paper and assembled to full-size for easy viewing.

If you have access to a printer capable of outputting the tabloid size (11" x 17") paper, then output the tiled version of the diagram as follows:

- 1) Note the page number(s) of the schematics you want to output as indicated in the middle window at the bottom of the viewing screen.
- 2) Go to the File menu and select Print Set-up. Choose the printer name and driver for your printer. Confirm that the plotter settings are set to output 11" x 17", or tabloid size paper in landscape () mode.
- 3) Close the Print Set Up screen and return to the File menu. Select "Print..." Input the page number of the schematic(s) you want to print in the print range window. Choose OK.

TO PRINT SPECIFIC SECTIONS OF A SCHEMATIC_

To print just a particular section of a PDF, rather than a full page, access the Graphics Select tool in the Acrobat Reader tool bar.

- 1) To view the Graphics Select Tool, press and HOLD the mouse button over the Text Select Tool which looks like: This tool will expand to reveal to additional tools.

 Choose the Graphics Select tool by placing the cursor over the button on of the far right that looks like:
- 2) After selecting the Graphics Select Tool, place your cursor in the document window and the cursor will change to a plus (+) symbol. Click and drag the cursor over the area you want to print. When you release the mouse button, a marquee (or dotted lined box) will be displayed outlining the area you selected.
- 3) With the marquee in place, go to the file menu and select the "Print..." option. When the print window appears, choose the option under the section called "Print Range" which says "Selected Graphic".

Select OK and the output will print only the area that you outlined with the marquee.

ON-SCREEN SEARCH OPTION

All of the text within the service manual PDF is content searchable. This means that you can enter any text, word, phrase or reference number that appears in the manual, and the PDF software will search, find and move the cursor to the location where you requested text first appears. This feature can be particularly useful in locating components on a specific schematic or printed wire circuit board (PWB) diagrams.

Follow these steps to effectively locate a component on a schematic diagram:

- 1) Locate the schematic you want to search by clicking on the corresponding bookmark on the left side of the screen. The view on the right of the screen will then jump to the desired schematic page.
- 2) Magnify the diagram to at least 400% before conducting a component search. This will enable you to easily view the reference number when it is highlighted on screen. To do this, click on the magnifying glass button on the tool bar at the top of the screen. Move the cursor over the diagram and RIGHT click you mouse. Select the 400% magnification option on the pop-up menu. Click on the button with the icon of the open hand to deactivate the magnification tool
- 3) Search the diagram (or the entire manual) by clicking on the binocular button tool at the top of the screen. The "Find" window will appear and allow you to type in your desired text. Type in a reference designator, such as R502, and click on the "Find" button. If the component is not on the diagram, but is listed anywhere else in the manual, the cursor will jump to the first location the text is found in the file. To find another instance of that same text, click on the binocular button again and select "Find Again."

SONY®

4-085-012-21

FD Trinitron WEG



Operating Instructions

KV-32XBR450 KV-36XBR450 KV-40XBR700

WARNING

To reduce the risk of fire or shock hazard, do not expose the TV to rain or moisture.





This symbol is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



This symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

CAUTION

TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT.

CAUTION

When using TV games, computers, and similar products with your TV, keep the brightness and contrast functions at low settings. If a fixed (non-moving) pattern is left on the screen for long periods of time at a high brightness or contrast setting, the image can be permanently imprinted onto the screen. Continuously watching the same program can cause the imprint of station logos onto the TV screen. These types of imprints are not covered by your warranty because they are the result of misuse.

Note on Caption Vision

This television receiver provides display of television closed captioning in accordance with §15.119 of the FCC rules.

Note on Cleaning the TV

Clean the TV with a soft dry cloth. Never use strong solvents such as thinner or benzine, which might damage the finish of the cabinet.

Note to CATV System Installer

This reminder is provided to call the CATV system installer's attention to Article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

Use of this television receiver for other than private viewing of programs broadcast on UHF or VHF or transmitted by cable companies for the use of the general public may require authorization from the broadcaster/cable company and/or program owner.

NOTIFICATION

This equipment has been tested and found to comply with the limits for a Class B digital device pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference with radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

Reorient or relocate the receiving antennas.
Increase the separation between the equipment and receiver.
Connect the equipment into an outlet on a circuit different
from that to which the receiver is connected.
Consult the dealer or an experienced radio/TV technician for
help.
You are cautioned that any changes or modifications not
expressly approved in this manual could void your authority
to operate this equipment.

Safety

Operate the TV only on 120 V AC.

- The plug is designed, for safety purposes, to fit into the wall outlet only one way. If you are unable to insert the plug fully into the outlet, contact your dealer.
- If any liquid or solid object should fall inside the cabinet, unplug the TV immediately and have it checked by qualified service personnel before operating it further.

Installing

- To prevent internal heat buildup, do not block the ventilation openings.
- Do not install the TV in a hot or humid place, or in a place subject to excessive dust or mechanical vibration.
- The AC power cord is attached to the rear of the TV with hooks. Do not attempt to remove the cord from these hooks. Doing so could cause damage to the TV.



As an Energy Star® Partner, Sony has determined that this product or product models meets the Energy Star® guidelines for energy efficiency.

Energy Star® is a U.S. registered mark.



TruSurround by SRS ()*

TruSurround is a trademark of SRS Labs, Inc. SRS and the SRS symbol are registered trademarks of SRS Labs, Inc. in the United States and selected foreign countries. SRS and TruSurround are incorporated under license from SRS Labs, Inc. and is protected under United

States Patent Nos. 4,748,669 and 4, 841, 572 with numerous additional issued and pending foreign patents. Purchase of this product does not convey the right to sell recordings made with the TruSurround technology.

BBE and BBE Symbol are trademarks of BBE Sound, Inc. and are licensed by BBE Sound, Inc. under U.S. Patent No. 4,638,258 and 4.482.866.

FD Trinitron and the Wega logo are trademarks of Sony Corporation.

Owner's Record

The model and serial numbers are provided on the front of this instruction manual and at the rear of the TV. Refer to them whenever you call upon your Sony dealer regarding this product.

Important Safeguards

For your protection, please read these instructions completely, and keep this manual for future reference.

Carefully observe and comply with all warnings, cautions and instructions placed on the set or described in the operating instructions or service manual.

WARNING

To guard against injury, the following basic safety precautions should be observed in the installation, use and servicing of the set.

Use

Power Sources

This set should be operated only from the type of power source indicated on the serial/model plate. If you are not sure of the type of electrical power supplied to your home, consult your dealer or local power company. For those sets designed to operate from battery power, refer to the operating instructions.



Grounding or Polarization

This set is equipped with a polarized AC power cord plug (a plug having one blade wider than the other), or with a three-wire grounding type plug (a plug having a third pin for grounding). Follow the instructions below:

For the set with a polarized AC power cord plug

This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug still fails to fit, contact your electrician to have a suitable outlet installed. Do not defeat the safety purpose of the polarized plug by forcing it in.

Alternate Warning

For the set with a three-wire grounding type AC plug

This plug will only fit into a grounding-type power outlet. This is a safety feature. If you are unable to insert the plug into the outlet, contact your electrician to have a suitable outlet installed.

Do not defeat the safety purpose of the grounding plug.

Overloading

Do not overload wall outlets, extension cords or convenience receptacles beyond their capacity, since this can result in fire or electric shock.



Always turn the set off when it is not being used. When the set is left unattended and unused for long periods of time, unplug it from the wall outlet as a precaution against the possibility of an internal malfunction that could create a fire hazard.



If a snapping or popping sound from a TV set is continuous or frequent while the TV is operating, unplug the TV and consult your dealer or service technician. It is normal for some TV sets to make occasional snapping or popping sounds, particularly when being turned on or off.



Object and Liquid Entry

Never push objects of any kind into the set through the cabinet slots as they may touch dangerous voltage points or short out parts that could result in a fire or electric shock. Never spill liquid of any kind on the set.



Cleaning

Unplug the set from the wall outlet before cleaning or polishing it. Do not use liquid cleaners or aerosol cleaners. Use a cloth lightly dampened with water for cleaning the exterior of the set.



Installation

Attachments

Do not use attachments not recommended by the manufacturer, as they may cause hazards.



Water and Moisture

Do not use power-line operated sets near water — for example, near a bathtub, washbowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool, etc.



Accessories

Do not place the set on an unstable cart, stand, table or shelf. The set may fall, causing serious injury to a child or an adult and serious damage to the set. Use only a cart or stand recommended by Sony for the specific model of TV. No part of the TV set should overhang any edge of the TV cart or stand; any overhanging edge is a safety hazard. An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.





Ventilation

The slots and openings in the cabinet and in the back or bottom are provided for necessary ventilation. To ensure reliable operation of the set, and to protect it from overheating, these slots and openings must never be blocked or covered.

- Never cover the slots and openings with a cloth or other materials.
- Never block the slots and openings by placing the set on a bed, sofa, rug or other similar surface.
- Never place the set in a confined space, such as a bookcase or built-in cabinet, unless proper ventilation is provided.
- Do not place the set near or over a radiator or heat register, or where it is exposed to direct sunlight.







Power-Cord Protection

Do not allow anything to rest on or roll over the power cord, and do not place the set where the power cord is subject to wear or abuse.

Antennas



Outdoor Antenna Grounding

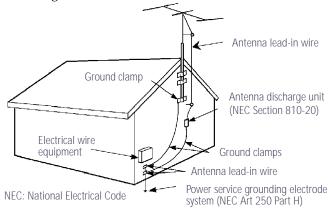
If an outdoor antenna is installed, follow the precautions below. An outdoor antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can come in contact with such power lines or circuits.

WHEN INSTALLING AN OUTDOOR ANTENNA SYSTEM, EXTREME CARE SHOULD BE TAKEN TO KEEP FROM CONTACTING SUCH POWER LINES OR CIRCUITS AS CONTACT WITH THEM IS ALMOST INVARIABLY FATAL.

Be sure the antenna system is grounded so as to provide some protection against voltage surges and built-up static charges. Section 810 of the National Electrical Code (NEC) in USA and Section 54 of the Canadian Electrical Code in Canada provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna discharge unit, connection to grounding electrodes, and requirements for the grounding electrode.

Antenna Grounding According to the NEC

Refer to section 54-300 of Canadian Electrical Code for Antenna Grounding.



Lightning

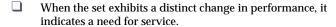
For added protection for this television receiver during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna. This will prevent damage to the receiver due to lightning and power-line surges.

Service

Damage Requiring Service

Unplug the set from the wall outlet and refer servicing to qualified service personnel under the following conditions:

- When the power cord or plug is damaged or frayed.
- If liquid has been spilled into the set.
- If the set has been exposed to rain or water.
- If the set has been subject to excessive shock by being dropped, or the cabinet has been damaged.
- If the set does not operate normally when following the operating instructions. Adjust only those controls that are specified in the operating instructions. Improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the set to normal operation.



Servicing

Do not attempt to service the set yourself since opening the cabinet may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.



CRACKED PLUG

A C LINE

Replacement Parts

When replacement parts are required, be sure the service technician certifies in writing that he has used replacement parts specified by the manufacturer that have the same characteristics as the original parts.

Unauthorized substitutions may result in fire, electric shock or other hazards.

Safety Check

Upon completion of any service or repairs to the set, ask the service technician to perform routine safety checks (as specified by the manufacturer) to determine that the set is in safe operating condition, and to so certify. When the set reaches the end of its useful life, improper disposal could result in a picture tube implosion. Ask a qualified service technician to dispose of the set.





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Introducing the FD Trinitron Wega

Overview

This chapter defines the contents of your Wega TV and provides an overview of how to set up and use basic features.

Topic	Page
Presenting the FD Trinitron Wega	2
Package Contents	3
Using the Remote Control	3

Presenting the FD Trinitron Wega

The FD Trinitron Wega (pronounced VAY-GAH) is characterized by outstanding contrast, uncompromising accuracy, and corner-to-corner detail.

You'll recognize the superiority of Wega technology almost immediately. The first thing you'll notice is minimal glare from the flat picture tube. This flat-screen technology improves picture detail without distortion, unlike conventional curved screens. The FD Trinitron delivers outstanding image detail not only at the screen center, but also at the corners — so you can enjoy a bright, clear picture from any location in a room.

Features

Some of the features that you will enjoy with your new TV include:

- □ **DRC Mode (Digital Reality Creation):** Unlike conventional line doublers, the DRC feature doubles vertical and horizontal lines, resulting in four times the density for quality sources such as DVD, Satellite and Digital camcorder.
- □ **Cinemotion:** Provides an optimized display by automatically detecting film content and applying a reverse 3/2 pulldown process. Moving pictures will appear clearer and more natural looking.
- □ Twin View[™]: Using Multi-Image Driver (MIDX), Twin View allows you to watch two programs side by side, with the ability to zoom in one picture. You can watch pictures from two different sources simultaneously.
- □ **16:9 Enhancement:** Vertical Compression technology that maximizes picture resolution on "anamorphic" or "enhanced for widescreen" sources, including selected DVDs.
- □ **Velocity Modulation:** Vertical line enhancement that sharpens picture definition.
- □ **Steady Sound:** Equalizes volume levels so there is consistent output between programs and commercials.
- □ **Parental Control:** V-Chip technology allows parents to block unsuitable programming for younger viewers.
- □ **Component Video Inputs:** Offers the best video quality for DVD (480p, 480i), and Digital Set-top box (HD1080i) connections.
- □ **S VIDEO Inputs:** Provides a high-quality video signal from connected equipment.
- ☐ **Favorite Channel Preview:** Preview up to eight favorite channels without leaving the current channel.

Package Contents

Along with your new Trinitron TV, the packaging box contains a remote control and two AA batteries. These items are all you need to set it up and operate the TV in its basic configuration.

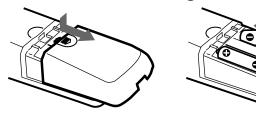
Most peripherals come with the necessary cables to connect them. If you want to set up special configurations, you may need to buy extra cables or connectors. It is best to ensure that you have all needed materials on hand before beginning a special-connection project.

Using the Remote Control

The remote control is the primary mechanism for controlling your TV. Handle the remote control with care; avoid dropping it, getting it wet, placing it in direct sunlight, near a heater, or where the humidity is high.

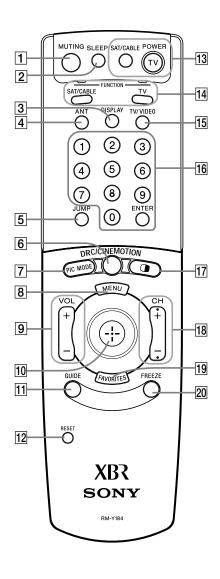
Inserting Batteries

Insert two size AA (R6) batteries (supplied) by matching the + and – on the batteries to the diagram inside the battery compartment.



Remove the batteries to avoid damage from possible battery leakage whenever you anticipate that the remote control will not be used for an extended period. The following table describes the buttons on the remote control that are for more advanced functions.

Button Descriptions

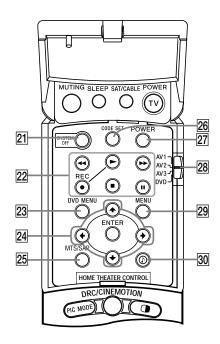


To scan rapidly through the channels, press and hold down the CH+ or CH- button.

Button	Description
1 MUTING	Press to mute the sound. Press again or press VOL + to
	restore the sound.
2 SLEEP	Press repeatedly until the TV displays the time in
	minutes (15, 30, 45, 60, or 90) that you want the TV to
	remain on before shutting off automatically. Cancel
	by pressing until SLEEP OFF appears. While Sleep
	feature is set, press once to view remaining time.
3 DISPLAY	Press once to display the current time and channel
	label (if set) and channel number. Press again to turn
	Display off. See page 46 for details on setting the time.
4 ANT	Changes between the VHF/UHF input to the AUX
	input.
5 JUMP	Press to jump back and forth between two channels.
	The TV alternates between the current channel and
	the last channel that was selected.
6 DRC/	For high quality sources (i.e., DVD player, Satellite
CINEMOTION	Receiver), this button cycles through the available
	high-resolution picture modes: Interlaced, Progressive,
	Cinemotion. Also available in the Video menu. For
	details, see "Selecting Video Options" on page 36.
7 PIC MODE	Cycles through the available video picture modes:
	Vivid, Standard, Movie, Pro. Also available in the Video
	menu. For details, see "Selecting Video Options" on
	page 36.
8 MENU	Press to display the TV on-screen menu. Press again
	to exit from the menus.
9 VOL +/-	Adjusts the volume.
10	Joystick allows for movement of the on-screen cursor.
(-ŷ-)	Pressing down on the center of the joystick selects the
	item.
11 GUIDE	Displays the satellite program guide.
12 RESET	Press when in a menu to reset the settings to the
	factory defaults.
13 POWER buttons	Turn on and off the TV and SAT/CABLE equipment
(GREEN)	you have programmed into the remote control. For
	instructions, see "Programming the Remote Control"
	on page 50.
14 FUNCTION	Select the equipment (TV or SAT/CABLE) that you
buttons	want to operate. The indicator lights up momentarily
	when pushed to show which device the remote
	control is operating.

Description
Cycles through the video equipment connected to you
TV's video inputs: TV, VIDEO 1, VIDEO 2, VIDEO 3, VIDEO 4, VIDEO 5, VIDEO 6.
Press 0 - 9 to select a channel, the channel changes
after 2 seconds. Press ENTER to select immediately.
Turns on/off Twin View. For details, see "Using Twin
View" on page 31.
Scan through channels.
Displays the Favorite Channels list. For details, see
"Using Favorite Channels" on page 30.
Freezes the window picture. Press again to restore the
picture.

(Continued from the previous page)



04 CVCTEM OFF	Downers off all Convergionment at an as (This feature
21 SYSTEM OFF	Powers off all Sony equipment at once. (This feature
00 100/01/0	may not work with older Sony equipment.)
22 VCR/DVD CO	
**	Rewind
REC	Record
>>	Fast-forward
	Play
	Stop
Ш	Pause
23 DVD MENU	Displays the DVD Disc menu
24 • • •	Used for DVD on-screen menu movement and
and ENTER	selection
25 MTS/SAP	Cycles through the Multi-channel TV Sound (MTS) options: Stereo, Auto-SAP (Second Audio Program), and Mono. For details, see "Using the Audio Menu" on page 38.
26 CODE SET	Used for programming the remote control to operate non-Sony video equipment. For details, see "Programming the Remote Control" on page 50.
[27] POWER butto (GREEN)	Turn on and off the VCR/DVD equipment you have programmed into the remote control. For instructions, see "Programming the Remote Control" on page 50.
28 AV1 ¬ AV2 ¬ AV3 ¬ DVD	Use to switch control for connected video equipment. You can program one video source for each switch position. (For details, see "Programming the Remote Control" on page 50.)
29 MENU	Used for DVD player setup menu.
30 1	Switches Steady Sound on/off. For details, see page 38.

Installing the TV

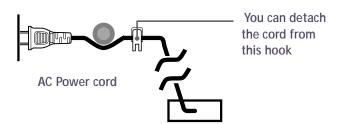
Overview

This chapter includes illustrated instructions for setting up your TV.

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Note About the AC Power Cord

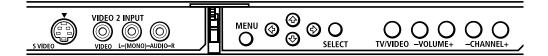
The AC power cord is attached to the rear of the TV with a hook. Use caution when removing the AC plug from its holder. Gently slide the plug in the upward direction to remove from hook. Once removed, the AC power plug should automatically disengage from its stored location.



TV Controls and Connectors

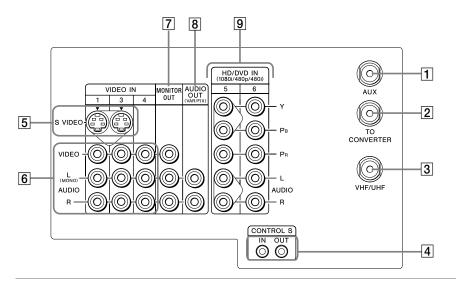
Front Panel Menu Controls

The front panel menu controls allow access to the on-screen menus without the use of a remote control. Pressing the MENU button brings up the on-screen menus. The arrow buttons move the on-screen cursor in the menus and the SELECT button selects the menu item.



(Illustrations in this manual are based upon the KV-32/36XBR450; the front panel of the KV-40XBR700 is functionally the same, but has slight cosmetic differences.)

TV Rear Panel



Connection	Description
1 AUX	Allows you to view local and cable channels if your cable provider does not feature local channels. You can switch between local and cable channels by pressing ANT on the remote control. Devices connected to the AUX input can be viewed only in the Twin View left picture.
2 TO CONVERTER	This is a VHF/UHF OUT jack that lets you set up your TV to switch between scrambled channels (through a cable box) and normal cable channels (CATV). Use this jack instead of a splitter to get better picture quality when switching between scrambled and unscrambled cable channels.

Connection	Description
3 VHF/UHF	Connects to your VHF/UHF antenna or cable.
4 CONTROL S IN/OUT	Allows the TV to receive (IN) and send (OUT) remote control signals to other Sony infrared-controlled audio or video equipment.
5 S VIDEO	Connects to the S VIDEO OUT jack of your VCR or other S VIDEO-equipped video equipment. Provides better picture quality than the VHF/UHF jacks or the Video IN jack.
6 VIDEO/AUDIO [L(MONO)/R]	Connect to the audio and video OUT jacks on your VCR or other video equipment. A video input (VIDEO 2) is located on the front panel of the TV. The Audio and Video IN jacks provide better picture quality than the VHF/UHF IN jack.
7 MONITOR OUT	Lets you record the program you are watching to a VCR. When two VCRs are connected, you can use your TV as a monitor for tape-to-tape editing (not available with 480p or 1080i when the input is to VIDEO 5 or 6).
8 AUDIO OUT (VAR/FIX) L (MONO)/R	Connect to the left and right audio inputs of your audio or video equipment.
9 HD/DVD IN (1080i/480p/480i)	Connect to your DVD player's or Digital Set-top box's component video (Y, PB, PR) and audio (L/R) jacks.

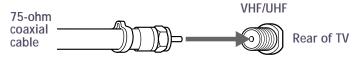
Basic Connection (Connecting Cable TV or Antenna)

Connecting Directly to Cable or to an Antenna

The connection you choose depends on the cable found in your home.

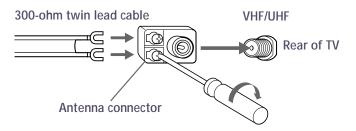
Newer homes are usually equipped with standard coaxial cable:

VHF Only or VHF/UHF or Cable



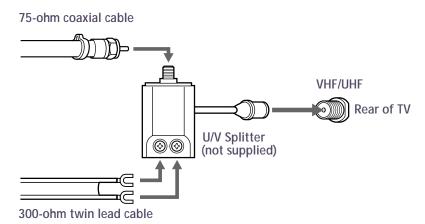
Older homes may have 300-ohm twin lead cable:

VHF Only or UHF Only or VHF/UHF



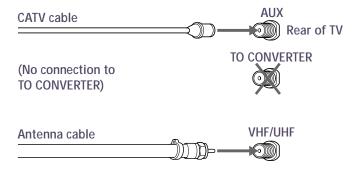
Some homes may have both:

VHF and UHF



Cable and Antenna

If your cable provider does not feature local channels, you may find this set-up convenient.



Select CABLE or antenna (ANT) mode by pressing ANT on the remote control.

To receive channels using an antenna, instead of the CATV cable:

- 1 Select antenna mode by pressing ANT on the remote control.
- 2 Turn the cable to OFF (see page 40).
- 3 Perform the Auto Program function (see page 40).

Cable Box Connections

Cable Box and Cable

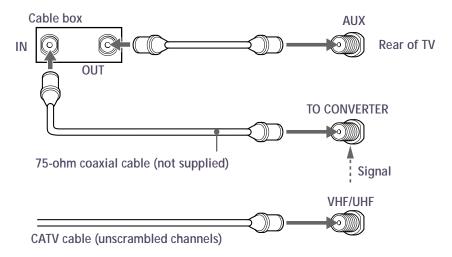
This is the preferred basic cable TV hookup to use if your cable TV company scrambles some channels, but not all of them (pay channels vs. regular cable channels), so you need to use a cable box.

With this setup you can:

- ☐ Use the TV remote control to change channels using your cable box when the signal is scrambled.
- ☐ Use the TV remote control to change channels using your TV when the signal is not scrambled. (Your TV's tuner provides a better signal than the cable box.)
- ☐ Use the Twin View feature. (When all channels are routed through your cable box, only one signal is sent to the TV, so you can not use the Twin View feature.)
- ☐ Use the Twin View feature normally with the CATV input.
- □ Use the Twin View feature partially with the cable box. (When you switch the TV input to AUX to use the cable box the unscrambled picture from the cable box will display. You can display the signal from both AUX and VHF/UHF inputs in the left Twin View picture, but you can display only the signal from the VHF/UHF input in the right Twin View picture.

To set up your TV to use both a Cable Box and a direct-connect CATV cable:

- 1 Connect the Cable TV cable to the TV's VHF/UHF jack.
- Using a coaxial cable, connect the TV's TO CONVERTER jack to the cable box's IN jack. The TV's internal converter allows you to switch between unscrambled signals coming straight into the TV and scrambled signals coming in through the cable box, eliminating the need for an external splitter.
- 3 Using a coaxial cable, connect the cable box's OUT jack to the TV's AUX jack.



To switch between channels from Cable Box and channels coming directly into TV

Press the ANT button on the TV remote control.

To use the TV remote control to switch channels on the cable box

☐ Program the remote control as necessary. (See "Programming the Remote Control" on page 50.)

To use the cable box

☐ Have your TV tuner set to channel 3 or 4 (as appropriate) and then use the Cable Box to change channels.

To prevent the accidental switching of TV channels

□ When using the VCR or Cable Box, you can use the Channel Fix feature to lock in a channel. The Channel Fix feature is under the Channel menu. (See "Using the Channel Menu" on page 40.)

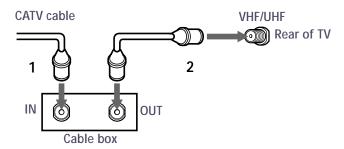
Cable Box Only

Use this hookup if:

- ☐ You subscribe to a cable TV system that uses scrambled or encoded signals requiring a cable box to view all channels, and
- ☐ You do not intend to hook up any other audio or video equipment to your TV.

When all channels are routed through your cable box, only one unscrambled signal is sent to the TV, so you cannot use the Twin View feature. If some channels are scrambled, but others are not, consider using the hookup on page 12 instead.

- 1 Connect the coaxial connector from your cable service to the cable box's IN jack.
- 2 Using a coaxial cable, connect the cable box's OUT jack to the TV's VHF/UHF jack.



To use the cable box

☐ Have the TV tuner set to channel 3 or 4 (as appropriate) and then use the cable box to change channels.

To use the TV remote control to switch channels on the cable box

□ Program the remote control as necessary. For details, see "Programming the Remote Control" on page 50.

To prevent accidental switching of TV channels

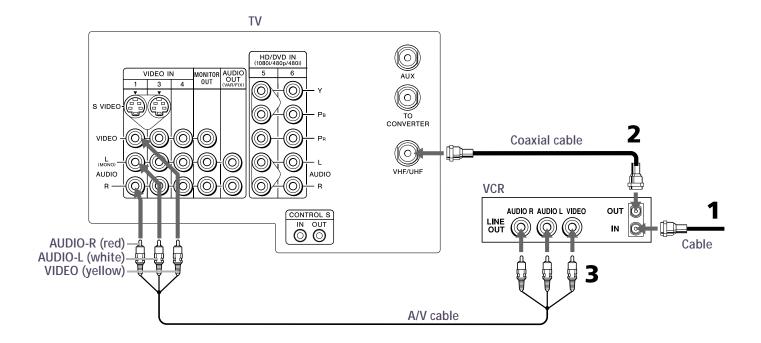
☐ Use the Channel Fix feature to lock in a channel. The Channel Fix feature is under the Channel menu. For details, see "Using the Channel Menu" on page 40.

Connecting a VCR and Cable

Use this hookup if you have cable TV that does not require a cable box.

- 1 Connect the cable TV cable to the VCR's IN jack.
- 2 Using a coaxial cable, connect the VCR's OUT jack to the TV's VHF/UHF jack.
- 3 Using an A/V cable, connect the VCR's Audio and Video OUT jacks to the TV's Audio and Video IN jacks.

All the VCR you are connecting has an S VIDEO jack, you can use an S VIDEO cable for improved picture quality (compared to a combination audio/video cable). Because an S VIDEO cable carries only the video signal, you will need audio cables for sound.



Connecting a VCR and Cable Box

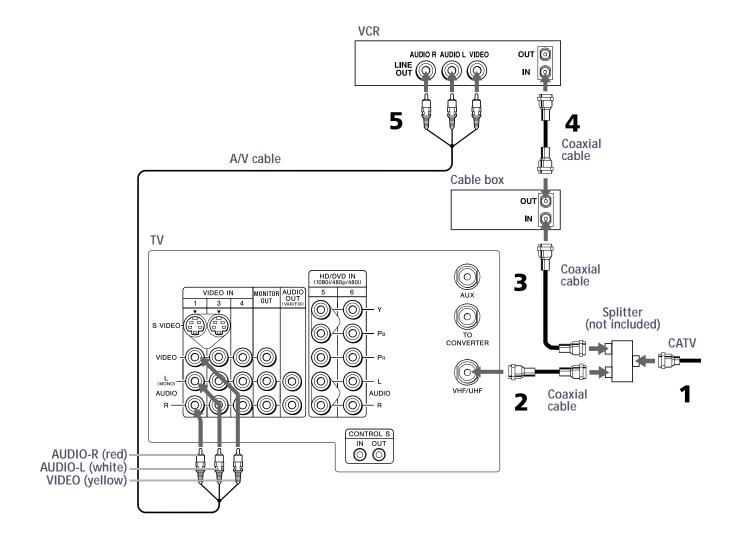
Use this hookup if:

- Your cable TV company scrambles some channels, but not all of them (pay channels vs. regular cable channels), so you need to use a cable box, and You want to use the Twin View feature. With this setup you can: Use the TV remote control to change channels using your cable box when the signal is scrambled. Use the TV remote control to change channels using your TV when the signal is not scrambled. (Your TV's tuner provides a better signal than the cable box.) □ Use the Twin View feature. Record both regular CATV and scrambled channels. To connect a cable box and a VCR, you will need: A small, inexpensive device known as a splitter. Three coaxial cables. Either a combination audio/video cable, or an S VIDEO cable and audio cables.
- 1 Connect the CATV cable to the single (input) jack of the splitter.
- 2 Use a coaxial cable to connect one of the two output jacks of the splitter to the TV's VHF/UHF jack.
- 3 Use a coaxial cable to connect the other output jack of the splitter to the input jack of the cable box.
- 4 Use a coaxial cable to connect the output jack of the cable box to the input jack of the VCR.
- 5 Use the video line (yellow) of a combination audio/video (A/V) cable to connect the video output jack of the VCR to the video input jack of the TV.

If your VCR has an S VIDEO jack, you can substitute an S VIDEO cable for the video line of an A/V cable. The S VIDEO cable will provide improved video signal quality. (You will need audio cables for sound.)

Connect the left (white) and right (red) audio output channels of the VCR to the respective input channels on the TV.

(Continued from the previous page)



To switch between channels from cable box and channels from CATV

☐ Press the TV/VIDEO button on the TV remote control.

To view cable box signals

☐ Match (channel 3 or 4) the channel setting of the VCR IN with the cable box OUT.

To use the TV remote control to change channels on the cable box

□ Program the remote control as necessary. (For details, see "Programming the Remote Control" on page 50.) Then use the remote control to change the cable box channels.

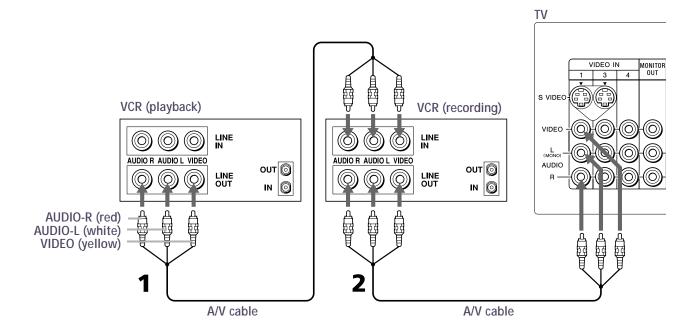
To use Twin View with the cable box

□ Turn on the VCR. (The VCR's tuner is used as one of the Twin View picture sources; if you do not turn on the VCR, the Twin View will not work.) Use the remote control's TV/VIDEO button to set the Twin View output to VIDEO 1. Change one Twin View channel by changing channels on the cable box.

Connecting Two VCRs for Tape Editing

If you connect two VCRs, so you can record from one to the other, you can connect the recording VCR into your TV to monitor what is being recorded. The procedure below shows you how to do this.

- 1 Using an A/V cable, connect the playback VCR's Audio and Video OUT jacks to the recording VCR's Audio and Video IN jacks.
- 2 Using an A/V cable, connect the recording VCR's Audio and Video OUT jacks to the TV's Audio and Video IN jacks.



To change the video input of the VCR

□ See your VCR's user guide for instructions.

To view what is being recorded

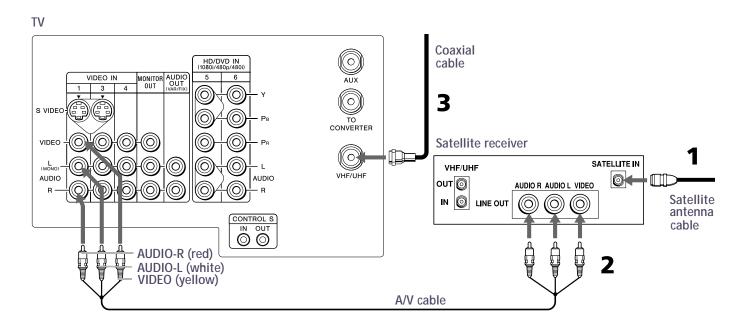
☐ Use the remote control to set the TV to the video input to which the recording VCR is connected. (VIDEO 1 in the illustration above.)

If the VCRs you are connecting have S VIDEO jacks, you can use S VIDEO cables for improved picture quality (compared to a combination audio/video cable). Because S VIDEO cables carry only the video signal, you will need audio cables for sound.

Connecting a Satellite Receiver

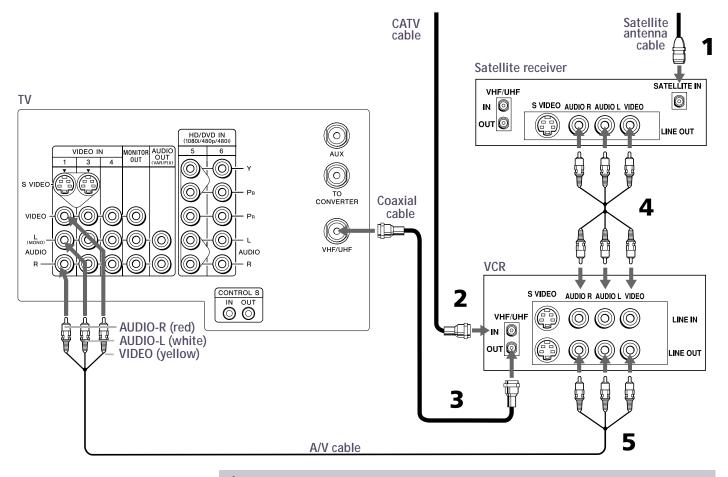
- 1 Connect the satellite antenna cable to the satellite receiver's SATELLITE IN jack.
- 2 Using an A/V cable, connect the satellite receiver's Audio and Video OUT jacks to the TV's Audio and Video IN jacks.
- 3 Connect a coaxial cable from your cable or antenna to the TV's VHF/UHF jack.

All the receiver you are connecting has an S VIDEO jack, you can use an S VIDEO cable for improved picture quality (compared to a combination audio/video cable). Because S VIDEO cables carry only the video signal, you will need audio cables for sound.



Connecting a Satellite Receiver with a VCR

- 1 Connect the satellite antenna cable to the satellite receiver's SATELLITE IN jack.
- 2 Connect the CATV cable to the VCR's VHF/UHF IN jack.
- 3 Using a coaxial cable, connect the VCR's OUT jack to the TV's VHF/UHF jack.
- 4 Using an A/V cable, connect the satellite receiver's Audio and Video OUT jacks to the VCR's Audio and Video IN jacks.
- 5 Using an A/V cable, connect the VCR's Audio and Video OUT jacks to the TV's Audio and Video IN jacks.



If the peripherals you are connecting have S VIDEO jacks, you can use S VIDEO cables for improved picture quality (compared to combination audio/video cables). Because S VIDEO cables carry only the video signal, you will need audio cables for sound.

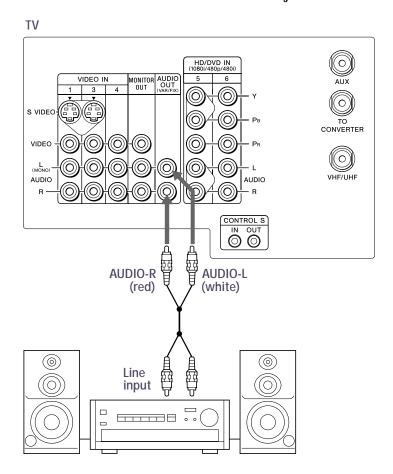
If necessary, change the video input on your VCR. (See your VCR's user's guide for instructions on how to do that.)
 To watch satellite TV, or the VCR
 Press TV/VIDEO on the remote control to select a video source.
 To watch cable TV
 Press TV/VIDEO on the remote control to select VHF/UHF (to select the CATV cable on the TV).

Connecting an Audio Receiver

For better sound quality, you may want to connect your TV to your stereo system's audio receiver.

To connect to an audio receiver

☐ Use audio cables to connect the TV's Audio OUT jacks to the audio receiver's audio LINE IN jacks.



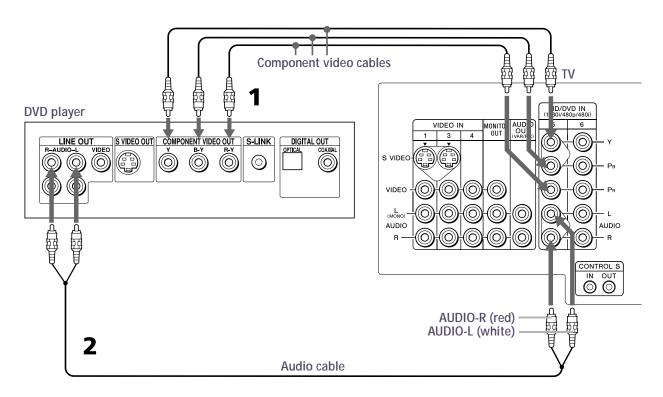
Connecting a DVD Player with Component Video Connectors

This is the preferred hookup to use if your DVD player has component (Y, PB, PR) jacks.

1 Using three separate component video cables, connect the DVD player's Y, PB and PR jacks to the Y, PB and PR jacks on the TV — the number 5 or 6 connections under HD/DVD IN.

The Y, PB and PR jacks on your DVD player are sometimes labeled Y, CB and CR, or Y, B-Y and R-Y. If so, connect the cables to like colors.

2 Using an audio cable, connect the DVD player's Audio OUT jacks to the TV's Audio IN jacks. Be sure to use the same column of inputs that you used for the video connection (HD/DVD IN 5 or 6).

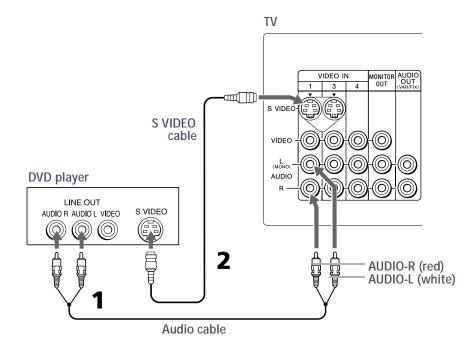


You cannot use the MONITOR OUT jacks to record the signal from any equipment connected into the Y, PB, PR jacks.

Connecting a DVD Player with A/V Connectors

Use this hookup if your DVD player does not have component (Y, PB, PR) jacks.

- An S VIDEO connection will give a good-quality video signal, but if your DVD player has component video, that connection (described on the previous page) will give an even better signal.
- 1 Using audio cables, connect the DVD player's Audio OUT jacks to the TV's Audio IN jacks.
- 2 Using an S VIDEO cable, connect the DVD player's S VIDEO jack to the TV's S VIDEO jack.



To switch between your TV and DVD

☐ Use the TV/VIDEO button on the TV's remote control to switch from one input device to another.

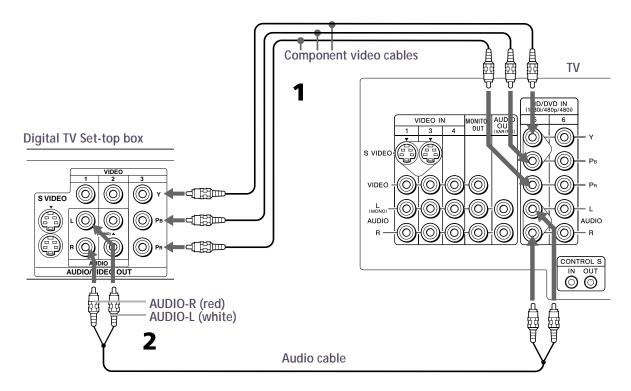
Connecting a Digital TV Receiver

Be sure to read the manual for the Set-top box.

1 Using three separate component video cables, connect the Digital TV Set-top box's Y, PB and PR jacks to the TV.

If you prefer, you can use an S VIDEO cable instead of the Y, PB and PR connections. The Y, PB and PR connections will provide the best-quality picture, but you cannot record the signal from any equipment connected to the Y, PB and PR inputs.

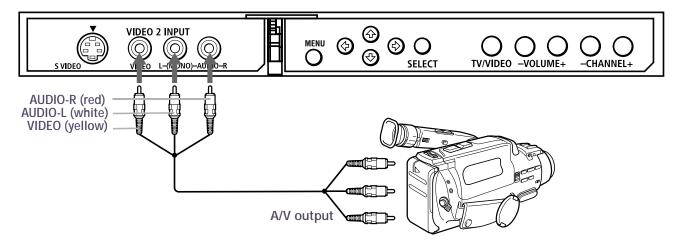
2 Using an audio cable, connect the Digital TV Set-top box's Audio OUT jacks to the TV's Audio IN jacks.



Connecting a Camcorder

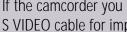
For easy connection of the camcorder, the TV has front Audio and Video inputs (shown below). If you prefer, you can connect the camcorder to the TV's rear Audio and Video IN jacks.

Using A/V cables, connect the camcorder's Audio and Video OUT jacks to the TV's Audio and Video IN jacks.



(Illustrations in this manual are based upon the KV-32/ 36XBR450; the front panel of the KV-40XBR700 is functionally the same, but has slight cosmetic differences.)

If you have a mono camcorder, connect its audio output to the TV's AUDIO L jack.



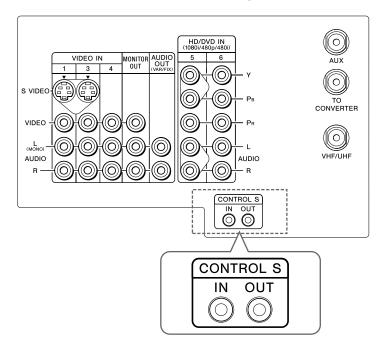
if the camcorder you are connecting has an S VIDEO jack, you can use an S VIDEO cable for improved picture quality (compared to a combination audio/ video cable). Because S VIDEO cables carry only the video signal, you will also need audio cables for sound.

To view the camera's output

Use the TV/VIDEO button on the front panel of the TV (or on the remote control) to set the TV to the video input to which the camcorder is connected. (VIDEO 2 in the illustration above.)

Using the CONTROL S Feature

The CONTROL S feature allows you to control your TV, plus other Sony equipment (such as a DVD player or VCR) connected to the TV, using only the TV's remote control. In addition to allowing you to control multiple devices with one remote control, the CONTROL S feature allows you to always point your remote control at your TV, instead of having to point it at the other equipment, which might be hidden or out of direct line of sight.



Setting Up the TV Automatically

After you finish connecting your TV, you can run Auto Setup to set up your channels. The Auto Setup screen appears when you turn your TV on for the first time after installing it. If you do not want to set up the channels at this time, you can do it later by using the Auto Program feature in the Channel menu (see page 40 for information regarding Channel menu).

The Auto Setup feature does not apply for installations that use a cable box for all channel selection.

Using Auto Setup

- 1 Turn on the TV.
- 2 Press the TV FUNCTION button on the remote control.
- 3 Press CH+ to run Auto Setup.
- 4 After Auto Setup has run, press CH- to exit.

Reset TV to Factory Settings

To reset your TV to the factory settings

- 1 Turn on the TV.
- 2 Hold down the RESET button on the remote control.
- Press and release the POWER button on the TV. (The TV will turn itself off, then back on.)
- Release the RESET button.

Using the Features

Overview

This chapter describes how to use features of your TV.

Topic	Page
Using Favorite Channels	30
Using Twin View	31
Using the Freeze Function	34

Using Favorite Channels

The Favorite Channel feature lets you select programs from a list of favorite channels that you previously specified.

To display a list of your favorite channels:

- 1 If you have not already done so, create a list of favorite channels. (For information on setting up Favorite Channels see "Selecting Channel Options" on page 40.)
- 2 Press the FAVORITES button on the remote control.



- 3 Move the joystick ♠ or ♥ to highlight the channel you want to watch. The program on that channel appears in the preview window.
- 4 Press the 🕀 button to select the channel.

Using Twin View

Twin View lets you see two pictures — from an antenna, a VCR, a DVD, etc, — on the screen at the same time. (You can only hear the sound associated with one of the pictures however. You choose which picture's sound is selected.) You can change the relative size of each of the pictures.

Displaying Twin Pictures

To display twin pictures

1 Press the button on your remote control. (A second picture-window appears.)

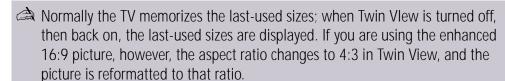


- 2 To cancel twin pictures
 - Press the button or
 - □ Press the ⊕ button.

Activating the Picture

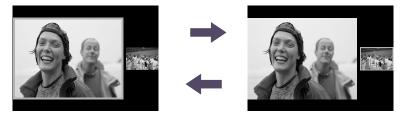
With Twin View, the picture highlighted with a blue frame is active. In the active picture, you can:

- □ Change channels
- □ Adjust the volume.
- □ Switch the input sources (to go from UHF/VHF to CATV cable, for example, press TV/VIDEO on the remote control).
- □ Change the picture size by pressing ◆/♥ on the joystick.



To activate the right picture

 Move the joystick to the right (without pressing down on it).



To activate the left picture

Move the joystick to the left (without pressing down on it).

Factors affecting Twin View include:

Equipment connected to the AUX and HD/DVD IN (numbers 5 and 6) inputs cannot be displayed in the right Twin View picture.

Changing the Picture Size

The zoom feature lets you vary the relative size of the left and right pictures.

- 1 Activate the picture whose size you want to change.
- 2 Press on the joystick to enlarge the picture.
- 3 Press ♥ on the joystick to make the picture smaller.



When you adjust the twin screen sizes, the TV memorizes the change. The next time you use the Twin View function, the memorized sizes appear.

Using the Freeze Function

The FREEZE button allows you to temporarily capture a program's picture. You can use this feature to write down information such as phone numbers, recipes, etc.

The FREEZE feature works only in normal view; if you are in Twin View, it will not work.

To use the FREEZE function

- When the program information you want to capture is displayed, press the FREEZE button, on the remote control.
- 2 The TV switches to Twin View mode and displays the "frozen" picture on the right, while the current program continues on the left.



3 To cancel and return to normal viewing, press the FREEZE button.

Using the Menus

Overview

Opening and choosing a menu:

- 1 Press the MENU button to display the Menu screen.
- 2 Move the joystick to the desired menu icon and press 🕀 to select it.
- 3 Use the joystick to scroll through the features.
- 4 See the specific menu page for instructions on moving through the menu.

The Menu gives you access to the following features:

Menu Icon	Description	Page
Video	VIDEO allows you to make adjustments to your picture settings. It also allows you to customize the Picture Mode based on the type of program you are viewing.	36
Audio	AUDIO offers enhanced audio options such as listening to second audio programming (SAP), or customizing the effect of the sound on your TV.	38
Channel	CHANNEL allows you to set up a Favorite Channel list, run the Auto Program function, and more.	40
Parent	PARENT lets you control the viewing of programs based on their ratings.	42
Timer	TIMER lets you set the clock on your TV and allows you to program your TV for scheduled viewing using the Timers.	46
Setup	SETUP provides several options for setting up your channels, labeling your video inputs, and selecting the language of the on-screen menus.	47

To end a menu session: Press MENU button again.

To end one menu session and move to another:

Move the joystick upward to return to the menu icons.

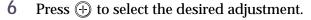
Move the joystick to choose the next menu icon and press (+) to select it.

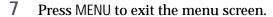


Using the Video Menu

To select the Video Menu

- 1 Press MENU.
- Move the joystick to the Video icon and press (4).
- 3 Use the joystick to scroll through the features.
- 4 Press to select a feature. That feature's adjustment appears.
- Use the joystick to make the desired adjustments.





To restore the factory default settings for Picture, Brightness, Color, Hue, and Sharpness, Color Temp and VM.

☐ Press RESET on the remote control when in the Video menu.

Selecting Video Options

To change from one Video Mode to another, use the PICTURE MODE button on the remote control.

The Video Menu includes the following options.

Option	Description	า
Mode Customized picture viewing	Vivid	Select for enhanced picture contrast and sharpness.
	Standard	Recommended for normal viewing conditions.
	Movie	Select for soft, film like, picture.
	Pro	Select for professional monitor like appearance.
		alter the Video Menu settings (Picture, Brightness, Color, each Mode.
Picture	Adjust to increase picture contrast and deepen the color or decrease picture contrast and soften the color.	
Brightness	Adjust to brighten or darken the picture.	
Color	Adjust to increase or decrease color intensity.	
Hue	Adjust to increase or decrease the green tones.	
Sharpness	Adjust to sl	narpen or soften the picture.



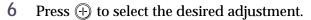
Option	Description		
Color Temp	Choose from three color temperatures:		
White	Cool	Select to give the white colors a blue tint.	
intensity adjustment	Neutral	Select to give the white colors a neutral tint.	
aujustinent	Warm	Select to give the white colors a red tint (NTSC-Standard).	
VM Velocity Modulation		ture definition to give every object a sharp, clean from High, Medium, Low, Off.	
DRC mode Digital Reality	quality source	ch-resolution picture with 4x density, for high ces (i.e., DVD player, Satellite receiver). Interlaced, Progressive, or CineMotion.	
Creation	Interlaced	Recommended for moving pictures.	
mode	Progressive	Recommended for still images and text.	
	CineMotion	Provides an optimized display by automatically detecting film content and applying a reverse 3/2 pulldown process. Moving pictures will appear clearer and more natural-looking.	

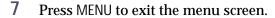


Using the Audio Menu

To select the Audio Menu

- 1 Press MENU.
- Move the joystick to the Audio icon a_{3} and press \oplus .
- 3 Use the joystick to scroll through the options.
- 4 Press to select an option. That option's settings appear.
- 5 Use the joystick to make the desired adjustments.







☐ Press RESET on the remote control when in the Audio menu.



The Audio Menu includes the following options:

Option	Description	Description	
Treble	Adjust to in	Adjust to increase or decrease higher-pitched sounds.	
Bass	Adjust to in	Adjust to increase or decrease lower-pitched sounds.	
Balance	Adjust to er	Adjust to emphasize left or right speaker balance.	
Steady Sound	ON	Select to stabilize the volume.	
	OFF	Select to turn off Steady Sound.	
Effect	TruSurround	Select for surround sound (for stereo programs only).	
	Simulated	Adds a surround-like effect to mono programs.	
	OFF	Normal stereo or mono reception.	



Description	
Stereo	Select for stereo reception when viewing a program broadcast in stereo.
Auto-SAP	Select to automatically switch the TV to second audio programs when a signal is received. (If no SAP signal is present, the TV remains in Stereo mode.)
Mono	Select for mono reception. (Use to reduce noise during weak stereo broadcasts.)
ON	Select to turn on the TV speakers.
OFF	Select to turn off the TV speakers and listen to the TV's sound only through your external audio system speakers.
This option to OFF.	can be set only when the Speaker option is set
Variable	Sound output varies according to the TV settings. Useful when you want to use the TV's remote control to adjust the output through a separate audio system.
Fixed	Sound output is held at a fixed level. Use your audio receiver's remote control to adjust the volume.
	Auto-SAP Mono ON OFF This option to OFF. Variable



Using the Channel Menu

To select the Channel Menu

- 1 Press MENU.
- Move the joystick to the Channel icon and press 🕁.
- 3 Use the joystick to scroll through the features.
- 4 Press to select a feature. That feature's options appear.
- 5 Use the joystick to scroll through the options.
- 6 Press 🕁 to select the desired option.
- 7 Press MENU to exit the menu screen.



Selecting Channel Options

The Channel Menu includes the following options:

Option	Des	cription	
Favorite Channel	1	Press 💮 to select a favorite channel number.	
	2 Use the joystick to scroll through the channels until you find the channel you want to add to your favorites.		
	3	Press 🕞 to select it.	
Cable	ON	Select if you are receiving cable channels with a CATV cable.	
	OFF	Select if you are using an antenna.	
	You should run Auto Program after changing the cable setting.		
Channel Fix Useful when you have a cable box or satellite receiver connected	2-6	"Fix" your TV's channel setting to 3 or 4 and use the cable box, VCR or satellite receiver to change channels. Select one of these settings if you have connected the device to the VHF/UHF jack.	
	AUX	Same as 2-6, except you select one of these settings if you have connected the device to the AUX jack (see page 8).	
	VIDE	Use this setting if you have connected the device to the Audio and Video IN jacks.	
Auto Program	Automatically programs the TV for all receivable channel from both VHF/UHF and AUX inputs.		

Option	Description		
Channel	Removes and adds viewable channels.		
Skip/Add	1 Use the joystick to scroll through the channels until you find the channel you want to skip/add.		
	2 Press to select it.		
	3 Press the joystick (♠/♦) to toggle between "Add" and "Skip."		
	4 Press 🕞 to select.		
Channel Label	Label up to 20 channels with their station call letters.		



Using the Parent Menu

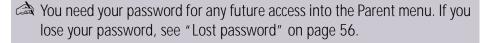
The Parent menu allows you to set up the TV to block programs according to their content and rating levels. These ratings are assigned by a federal rating board. Not all programs are rated. Using the Parental Lock blocks programs with a specific rating, but it does not block an entire channel.

To select the Parent Menu

- 1 Press MENU.
- Move the joystick to the Parent icon and press .
- 3 Use the 0-9 buttons on the remote control to enter your four-digit password.
- 4 Confirm your password by entering it again. (The Parent menu options appear.)



- 5 Use the joystick to scroll through the settings.
- 6 Press 🕒 to select the desired option.
- 7 Press MENU to exit the menu screen.



Using the Parent Menu

If you are not familiar with the Parental Guideline rating system, you should select Child, Youth, or Young Adult to help simplify the rating selection. To set more restrictive ratings, select Custom.

For descriptions of Child, Youth, and Young Adult ratings, see page 44.

The Parent menu includes the following options.

Option	Description	
Parental Lock	OFF	Parental lock is off. No programs are
Turn ratings on/		blocked from viewing.
off and select a	Child	Maximum ratings permitted are:
rating system		□ US: TV-Y, TV-G, G
rucing system		☐ Canada: TV-Y, C, G
	Youth	Maximum ratings permitted are:
		☐ US: TV-PG, PG
		☐ Canada: TV-PG, PG, 8 ans+
	Young Adult	Maximum ratings permitted are:
		☐ US: TV-14, PG-13
		☐ Canada: TV-14, 14+, 13 ans+
	Custom	Select to set ratings manually.
		☐ US: See page 44 for details.
		☐ Canada: See page 45 for details.
Change Password	For changing	your password.

US Models: Selecting Custom Rating Options

The content ratings will increase depending on the level of the age-based rating. For example, a program with a TV-PG V (Violence) rating may contain moderate violence, while a TV-14 V (Violence) rating may contain more intense violence.

To ensure maximum blocking capability, the agebased ratings should be blocked.

programs, be aware that the following types of programs may be blocked: emergency broadcasts, political programs, sports, news, public service announcements, religious programs and weather.

For US models, the Custom Rating Menu includes the following options. (For Canadian models, see page 45.)

Option	Description	
Movie Rating	G	All children and General Audience.
	PG	Parental Guidance suggested.
	PG-13	Parental Guidance for children under 13
	R	Restricted viewing, parental guidance is suggested for children under 17.
	NC-17 and X	No one 17 and under allowed.
V Rating	Age-Based	Options
Block programs	TV-Y	All children.
by their rating,	TV-Y7	Directed to older children.
content or both	TV-G	General Audience.
	TV-PG	Parental Guidance suggested.
	TV-14	Parents Strongly cautioned.
	TV-MA	Mature Audience only.
	Content-Ba	ased Options
	FV	Fantasy Violence.
	D	Suggestive Dialogue.
	L	Strong Language.
	S	Sexual situations.
	V	Violence.
Inrated	Block	Blocks all programs and movies that are
Block programs		broadcast without a rating.
or movies that are broadcast vithout a rating	Allow	Allows programs and movies that are broadcast without a rating.

Canadian Models: Selecting Custom Rating Options

For Canadian models, the Custom Rating Menu includes the following options. (For US models, see page 44.)

Option	Description	
English Rating	С	All children.
	C8+	Children 8 years and older.
	G	General programming.
	PG	Parental Guidance.
	14+	Viewers 14 and older.
	18+	Adult programming.
French Rating	G	General programming.
	8 ans+	Not recommended for young children
	13 ans+	Not recommended for ages under 13.
	16 ans+	Not recommended for ages under 16.
	18 ans+	Programming restricted to adults.
USA Rating	See "US Models" on page 44 for details.	

Viewing Blocked Programs

You can view a blocked program by entering the password. Press the ENTER button when tuned to a blocked program, and then enter the password. This temporarily switches off the Parental Lock. To reactivate the Parental Lock settings, turn off the TV. When the TV is turned on again, your Parental Controls settings are reactivated.



Using the Timer Menu

To select the Timer menu

- 1 Press MENU.
- 2 Use the joystick to move to the Timer icon and press \oplus .

To set the Current Time

- Use the joystick to select "Current Time", then press ⊕.
- If it is currently Daylight
 Savings Time, be sure to set that mode to "ON". (Daylight Savings
 Time starts in the Spring and ends in the Fall.)
- 3 Use the joystick to enter the correct time, then press \oplus .
- 4 Press MENU to exit the menu screen.

To set the Timer

Before setting the timer, be sure to set your TV's clock to the current time (and, if appropriate, Daylight Savings Mode). To check the TV's time setting, press the DISPLAY button on the remote control.

- 1 Move the joystick to "Timer 1" or "Timer 2", then press 🕀.
- 2 Use the joystick to enter your date, time and channel preferences, then press 🕀 to select each one.
- 3 Press MENU to exit the menu screen.

To reset the Clock or Timers

☐ Press RESET on the remote control after selecting that option in the Timer menu. This resets to the factory defaults.

Selecting Timer Options

The Timer Menu includes the following options:

Option	Description	
Timer 1 Timer 2	Program	Select to set the Timer by day, time, duration, and channel.
	OFF	Select to turn off the Timer. (Your previous settings will be saved.)
Current Time	Set the curren	t time.
Daylight Savings	ON	Select in the spring to turn on this mode during Daylight Saving Time.
	OFF	Select in the fall to turn of this mode at the end of Daylight Saving Time.



Using the Setup Menu

To select the Setup Menu

- 1 Press MENU.
- Use the joystick to move to the Setup icon and press (+).
- 3 Use the joystick to scroll through the features.
- 4 Press 🕀 to select a feature. (That feature's options appear.)
- 5 Use the joystick to scroll through the options.
- 6 Press 🕀 to select the desired option.
- 7 Press MENU to exit the menu screen.



Selecting Setup Options

The Setup Menu includes the following options:

Option	Description	
Caption Vision	Allows you to select from three closed-caption modes (for programs that are broadcast with closed caption).	
	CC1, CC2, CC3, CC4	Displays a printed version of the dialog or sound effects of a program. (Should be set to CC1 for most programs.)
	TEXT1, TEXT2, TEXT3, TEXT4	Displays network/station information presented using either half or the whole screen (if available). For closed captioning, set to CC1.
	XDS (Extended Data Service)	Displays a network name, program name, program length, and time of the show (if the broadcaster offers this service).
	OFF	Turns off Caption Vision.

Using the Menus

(Continued from the previous page)

Option	Description	
Video Label	Allows you to label the audio/video equipment connected to the TV, so you can identify it when TV/VIDEO button. When in the Setup menu's Vide feature, use the joystick to highlight an input to le press (+) to select it. Use the joystick to scroll the labels. Press (+) to select the equipment you con each of the input jacks on the back of your TV. S "Skip" if you do not have any equipment conne particular set of input jacks.	
	VIDEO 1/2/3/4	VHS, 8mm, Beta, LD, Game, SAT, DVD, Web, Receiver, DTV, Skip
	VIDEO 5/6	HD, DVD, DTV, Skip
	3	Skip", your TV skips this connection when TV/VIDEO button.
Tilt Correction	Allows you to con	rrect any tilt of the picture.
Language	Select to display a choice.	all on-screen menus in your language of
16:9 Enhanced	sources, such as s	ed picture resolution for widescreen elected DVD titles (only available when O mode). Press TV/VIDEO and select from ing options:
	AUTO	To activate automatically when a 16:9 signal is received.
	ON	To activate manually.
Demo	Runs a demonstration of on-screen menus.	

To use this feature with widescreen DVDs, set your DVD player to 16:9 aspect ratio.

AUTO/ON will appear when TV is in video mode 1-6.
ON/OFF will appear when TV is in VIDEO mode 5-6 and the 480p signal occurs.

Other Information

Overview

This chapter includes the following topics:

Topic	Page
Programming the Remote Control	50
Operating Other Equipment with Your TV Remote Control	53
Troubleshooting	55
Specifications	57
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Programming the Remote Control

The remote control is preset to operate Sony brand video equipment.

Switch Position on Remote Control	Programmable Code Number
AV1	303
AV2	302
AV3	301
DVD	751
	on Remote Control AV1 AV2 AV3

If you have video equipment other than Sony brand that you want to control with the TV's remote control, use the following procedures to program the remote control.

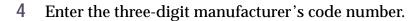


The equipment must have infrared (IR) remote capability in order to be used with the remote control.

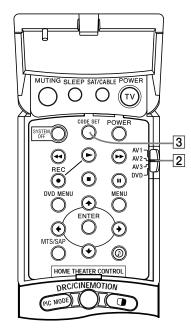
- 1 Check the list of the "Manufacturer's Codes" listed on page 52, and find the three-digit code number for the manufacturer's code for your equipment. (If more than one code number is listed, start with the number listed first.)
- 2 Open the cover of the remote control and move the slide switch to the desired equipment type.
- Press CODE SET and close the cover of the remote control.

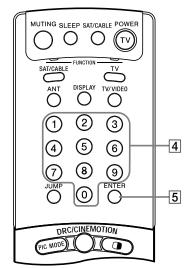


You must do step 4 within 10 seconds of step 3, or you must redo steps 2 and 3.



- 5 Press ENTER.
- To check if the code number works, aim the TV's remote control at the equipment and press the green POWER button that corresponds with that equipment. If it responds, you are done. If not, try using another code listed for that manufacturer.





Tips
 If more than one code number is listed, try entering them one by one until you come to the correct code for your equipment.
 If you enter a new code number, the code number you previously entered at that setting is erased.
 In some cases, you may not be able to operate your equipment with the Sony remote control. In such cases, use the equipment's own remote control unit.
 Whenever you remove the batteries to replace them, the code

numbers may revert to the factory setting and must be reset.

Other Information

Manufacturer's Codes

VCRs

VOICS	
Manufacturer	Code
Sony	301, 302, 303
Admiral	327
(M. Ward)	
Aiwa	338, 344
Audio	314, 337
Dynamic	
Broksonic	319, 317
Canon	309, 308
Citizen	332
Craig	302, 332
Criterion	315
Curtis Mathes	304, 338, 309
Daewoo	341, 312, 309
DBX	314, 336, 337
Dimensia	304
Emerson	319, 320, 316,
	317, 318, 341
Fisher	330, 335
Funai	338
General	329, 304, 309
Electric	
Go Video	322, 339, 340
Goldstar	332
Hitachi	306, 304,
	305,338
Instant Replay	309, 308
JC Penney	309, 305, 304,
3	330, 314, 336,
	337
JVC	314, 336, 337,
	345, 346, 347
Kenwood	314, 336, 332,
	337
LXI (Sears)	332, 305, 330,
	335, 338
Magnavox	308, 309, 310
Marantz	314, 336, 337
Marta	332
Memorex	309, 335
Minolta	305, 304
Mitsubishi/	323, 324, 325,
MGA	326
Multitech	325, 338, 321
NEC	314, 336, 337
Olympic	309, 308
Optimus	327

Manufacturer	Code
Orion	317
Panasonic	308, 309, 306,
	307
Pentax	305, 304
Philco	308, 309
Philips	308, 309, 310
Pioneer	308
Quasar	308, 309, 306
RCA/	304, 305, 308,
PROSCAN	309, 311, 312,
	313, 310, 329
Realistic	309, 330, 328,
	335, 324, 338
Sansui	314
Samsung	322, 313, 321
Sanyo	330, 335
Scott	312, 313, 321,
	335, 323, 324,
	325, 326
Sharp	327, 328
Shintom	315
Signature 2000	338, 327
(M. Ward)	
SV2000	338
Sylvania	308, 309, 338,
3	310
Symphonic	338
Tashiro	332
Tatung	314, 336, 337
Teac	314. 336, 338,
	337
Technics	309, 308
Toshiba	312, 311
Wards	327, 328, 335,
	331, 332
Yamaha	314, 330, 336,
	337
Zenith	331
Laserdisc Players	8
Manufacturer	Code
Sony	701
Panasonic	704, 710
Pioneer	702

DVD Players	
Manufacturer	Code
Sony	751
GE	755
Hitachi	758
JVC	756
Magnavox	757
Mitsubishi	761
Oritron	759
Panasonic	753
Philips	757
Pioneer	752
RCA/	755
PROSCAN	
Samsung	758
Toshiba	754
Zenith	760
Cable Boxes	
Manufacturer	Code
Sony	230
Hamlin/Regal	222, 223, 224,
	225, 226
Jerrold/G. I.	201, 202, 203,
	204, 205, 206,
	207, 208, 218
Oak	227, 228, 229
Panasonic	219, 220, 221
Pioneer	214, 215
Scientific	209, 210, 211
Atlanta	
Tocom	216, 217
Zenith	212, 213
Satellite Receiver	rs
Manufacturer	Code
Sony	801
Dish Network	810
Echostar	810
General	802
Electric	
Hitachi	805
Hughes	804
N('4 1. ' - 1. '	000

Mitsubishi

Panasonic

PROSCAN Toshiba

RCA/

809

803

802, 808

806, 807

Operating Other Equipment with Your TV Remote Control

Operating a VCR

Open the cover of the remote control and move the slide switch to the AV input you coded for the VCR.

To Do This	Press
Turn on/off	green POWER button (under the cover)
Change channels	CH +/-
Record	➤ and REC simultaneously.
Play	>
Stop	
Fast forward	>>
Rewind the tape	←
Pause	II
Search the picture forward or backward	►► or ◀◀ during playback (release to resume normal playback)

Operating a DVD Player

Open the cover of the remote control and move the slide switch to the AV input you coded for the DVD player.

To Do This	Press
Turn on/off	green POWER button (under the cover)
Play	>
Stop	
Pause	11
Step through different tracks of an audio disc	▶▶ to step forward or ◀◀ to step backward
Step through different chapters of a video disc	CH+ to step forward or CH- to step backward
Display the DVD menu	DVD MENU
Display the menu (Setup)	MENU

Operating a Cable Box

Press
SAT/CABLE (green POWER button)
SAT/CABLE (FUNCTION button)
0-9 buttons, ENTER
CH +/-
JUMP

Operating a Satellite Receiver

Press
SAT/CABLE (green POWER button)
SAT/CABLE (FUNCTION button)
0-9 buttons, ENTER
CH +/-
JUMP
DISPLAY
GUIDE
MENU
Joystick
① button

Operating an MDP (Laserdisc Player)

Open the cover of the remote control and move the slide switch to the AV input you coded for the MDP.

To Do This	Press
Turn on/off	green POWER button (under the cover)
Play	>
Stop	
Pause	II
Search the picture forward or backward	►► or ◀◀ during playback (release to resume normal playback)
Search a chapter forward or backward	CH +/-

Troubleshooting

Problem	Possible Remedies
No picture (screen not lit), no sound	 If your TV does not turn on, and a red light keeps flashing, your TV may need service. Call your local Sony Service Center. Make sure the power cord is plugged in. Push the power button on the front of the TV. Check to see if the TV/VIDEO setting is correct: when watching TV, set to TV; when watching connected equipment, set to VIDEO 1, 2, 3, 4, 5 or 6, as appropriate. Try another channel; it could be station trouble.
Remote control does not operate	 □ Batteries could be weak. Check the batteries and replace as necessary. □ Press TV (FUNCTION) when operating your TV. □ Make sure the TV's power cord is connected securely to the wall outlet. □ Locate the TV at least 3-4 feet away from fluorescent lights. □ Check the orientation of the batteries.
Dark, poor or no picture (screen lit), good sound	 Adjust the Picture setting in the Video menu (see page 36). Adjust the Brightness setting in the Video menu (see page 36). Check antenna/cable connections.
Good picture, no sound	 Press MUTING so that "MUTING" disappears from the screen (see page 4). Make sure Speaker is set to ON in the Audio menu (see page 38).
Cannot receive upper channels (UHF) when using an antenna	 Change Cable to OFF (see page 40). Use Auto Program in the Channel menu to add receivable channels that are not presently in memory (see page 40).
No color	☐ Adjust the Color settings in the Video menu (see page 36).
Only snow and noise appear on the screen	 Check the antenna/cable connections. Try another channel (it could be station trouble). Press ANT to change the input mode (see page 40).
Dotted lines or stripes	 Adjust the antenna. Move the TV away from noise sources such as cars, neon signs, or hair-dryers.
TV is fixed to one channel	 Use Auto Program in the Channel menu to add receivable channels that are not presently in the TV's memory (see page 40). Check your Channel Fix settings (see page 40).
Double images or ghosts	Use a highly directional outdoor antenna or a cable (if the problem is caused by reflections from nearby mountains or tall buildings).
Cannot operate menu	☐ If the item you want to choose appears in gray, you cannot select it.
Cannot receive any channels when using cable TV	 Use Auto Program in the Channel menu to add receivable channels that are not presently in the TV's memory (see page 40). Check your cable settings. Make sure Cable is set to ON in the Channel menu (see page 40).

Other Information

Problem	Pos	ssible Remedies
Cannot gain enough volume when using a cable box	. 🗆	Increase the volume of the cable box using the cable box's remote control. Then press TV (FUNCTION) and adjust the TV's volume.
Cannot receive channels		Use Auto Program in the Channel menu to add receivable TV channels that are not presently in TV memory (see page 40).
Unable to select a channel		Use Auto Program in the Channel menu to add receivable TV channels that are not presently in TV memory (see page 40).
Lost password		In the password screen (see page 42), enter the following master password: 4357. The master password clears your previous password; it cannot be used to temporarily unblock channels.
Cannot change channels with the remote control	0	Be sure you have not inadvertently switched your TV from channel 3 or 4 setting if you are using another device to change channels. If you are using another device to control channels, be sure the "function" button for that device has been pressed.
Cannot cycle through the other video equipment connected to the TV		Be sure the Video Label feature has not been set to Skip (see page 48).
There is a black box on the screen		You have selected a text option in the Setup menu and no text is available. (See page 47 to reset Setup selections.) To turn this feature off, select OFF in the Caption Vision option. If you were trying to get closed captioning, select CC1 instead of Text 1-4.
There is no twin picture or it is just static	0	Be sure your twin picture is set to a video source/channel that has a program airing. You may be tuned to a video input with nothing connected to it. Try cycling through your video inputs using the TV/VIDEO button. Twin View is not set to receive a signal from the AUX input. If you have connected a VCR or satellite receiver to the AUX input on the TV, it will not show in the right picture.
I get the same program in both Twin View pictures		Both may be set to the same channel. Try changing channels in either the left or right picture. You may be running all your channels through a cable box. The cable box will only unscramble one signal at a time. If possible, run a direct cable to your TV's VHF/UHF input. (This will only work if your cable system provides an unscrambled signal.)
I cannot get anything but TV channels in my left or right Twin View picture	r	Be sure the video label has not been set to skip your video inputs. See the Setup menu on pages 47 and 48.

If, after reading these operating instructions, you have additional questions related to the use of your Sony television, please call our Customer Information Services Center at 1-800-222-SONY (7669) (U.S. residents only) or 1-877-899-7669 (Canadian residents only).

Specifications

All Models (General)						
Picture Tube	FD Trinitron® tube	FD Trinitron® tube				
Antenna	75 ohm external termi	75 ohm external terminal for VHF/UHF				
Television System	NTSC, American TV S	NTSC, American TV Standard				
Channel Coverage						
VHF	2-13	2-13				
UHF	14-69					
CATV	1-125					
Power Requirements	120V, 60 Hz					
Number of Inputs/Outputs						
Video (IN)	4	1 Vp-p, 75 ohms unbalanced, sync negative				
S Video (IN)	3	Y: 1 Vp-p, 75 ohms unbalanced, sync negative				
		C: 0.286 Vp-p (Burst signal), 75 ohms				
Audio (IN)	6	500 mVrms (100% modulation)				
		Impedance: 47 kilohm				
Audio (OUT)	1	More than 408 mVrms at the maximum				
		volume setting (Variable)				
		More than 408 mVrms (Fixed)				
		Impedance (output): 2 kilohms				
Monitor Out	1	1 Vp-p, 75 ohms unbalanced, sync negative				
CONTROL S (IN/OUT)	1					
Component Video Input	2 (Y, P _B , P _R)	Y: 1.0 Vp-p, 75 ohms unbalanced, sync				
		negative; P _B : 0.7 Vp-p, 75 ohms				
		P _R : 0.7 Vp-p, 75 ohms				

KV-32XBR450

Supplied Accessories		
Remote Control	RM-Y184	
AA (R6) Batteries	2 supplied for remote control	
Optional Accessories		
AV Cable	VMC-810/820/830 HG	
Audio Cable	RKC-515HG	
S-LINK Cable	RK-G69HG	
Component Video Cable	VMC-10/30 HG	
TV Stand	SU-32XBR45 (also SU-32HS2 in Canada)	
Visible Screen Size	32 in (812.8 mm) picture measured diagonally	
Actual CRT Size	34 in (863.4 mm) picture measured diagonally	
Speaker Output	15W x 2	
Dimensions (W x H x D)	898.0 x 678.0 x 579.5 mm (35 3/8 x 26 3/4 x 22 7/8 in)	
Mass	84 kg (185 lbs)	
Power Consumption		
In Use	245 W	
In Standby	2 W	

Other Information

KV-36XBR450

RM-Y184
2 supplied for remote control
VMC-810/820/830 HG
RKC-515HG
RK-G69HG
VMC-10/30 HG
SU-36XBR45 (also SU-36HS2 in Canada)
36 in (914 mm) picture measured diagonally
38 in (965 mm) picture measured diagonally
15W x 2
994 x 755 x 622 mm (39 1/4 x 29 3/4 x 24 1/2 in)
108 kg (238 lbs)
245 W
2 W

KV-40XBR700

Supplied Accessories	
Remote Control	RM-Y184
AA (R6) Batteries	2 supplied for remote control
Optional Accessories	
AV Cable	VMC-810/820/830 HG
Audio Cable	RKC-515HG
S-Link Cable	RK-G69HG
Component Video Cable	VMC-10/30 HG
TV Stand	SU-40XBR7
Visible Screen Size	40 in (1,016 mm) picture measured diagonally
Actual CRT Size	42 in (1,067 mm) picture measured diagonally
Speaker Output	15W (subwoofer) 7.5W x 2
Dimensions (W x H x D)	1093 x 836 x 665 mm (43 1/8 x 33 X 26 1/8 in)
Mass	138 kg (304 lbs)
Power Consumption	
In Use	245 W
In Standby	2 W

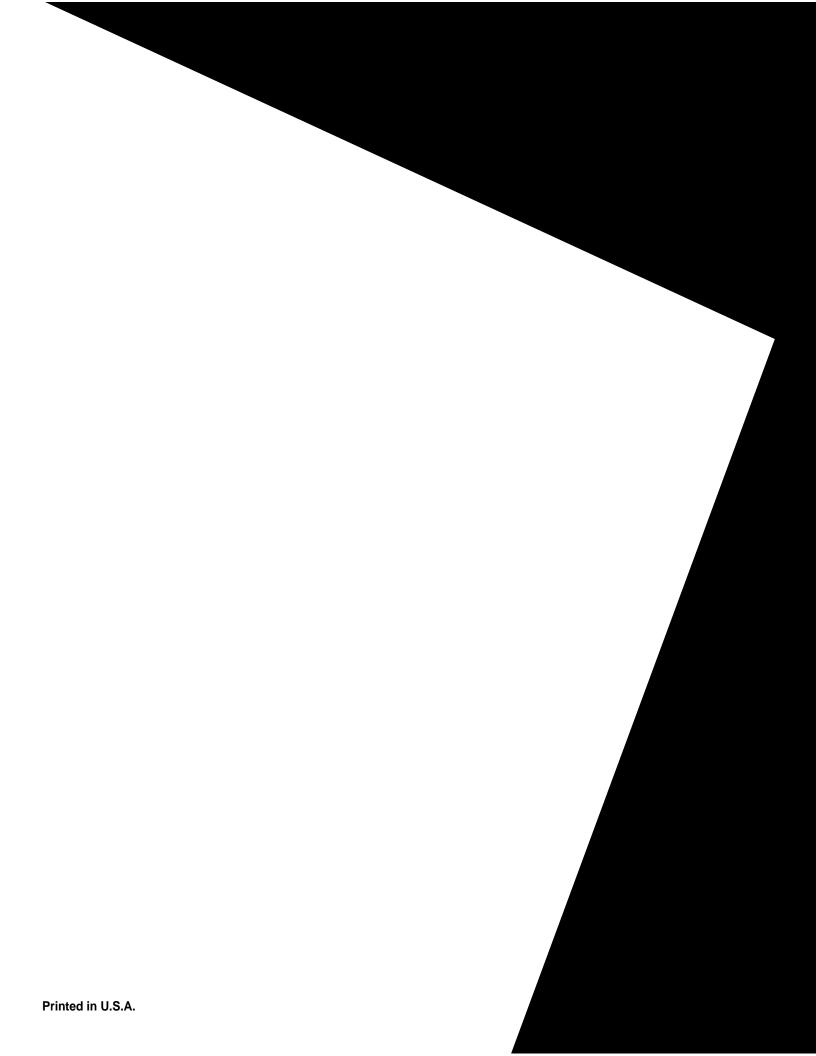
Design and specifications are subject to change without notice.

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SERVICE MANUAL

DX-1A CHASSIS

MODEL NAME	REMOTE COMMANDER	<u>DESTINATION</u>	CHASSIS NO.
KV-40XBR700	RM-Y184	US	SCC-S47G-A
KV-40XBR700	RM-Y184	CND	SCC-S48E-A
KV-40XBR700F	RM-Y184	HAWAII	SCC-S54D-A

SUPPLEMENT - 1

SUBJECT: NEW MODEL ADDED. NEW PARTS ADDED TO EXPLODED VIEWS.

Correct the service manual as shown. File this Correction with the service manual.

: Modified Item

Section 6: Exploded View (Page 100, 101)

6-1. Chassis

6-2. Picture Tube

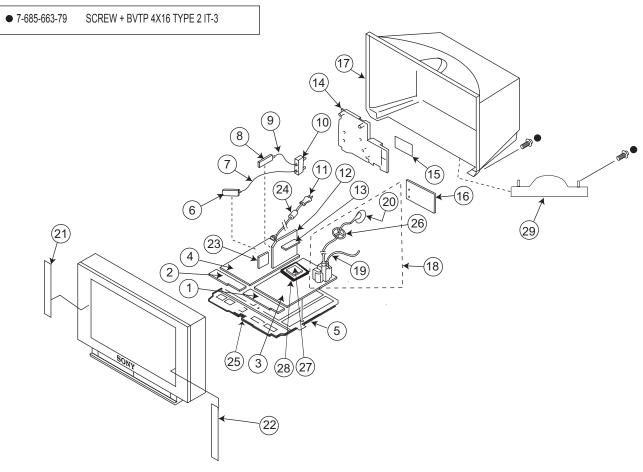
TRINITRON® COLOR TELEVISION SONY®

Sony Corporation
Sony Technology Center
Technical Services
Service Promotion Department

English 2001JJ74WEB-1 Printed in USA © 2001.10 NOTE: The components identified by shading and \triangle mark are critical for safety. Replace only with part number specified.

NOTE: Les composants identifies par un trame et une marque riangle sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

6-1. CHASSIS



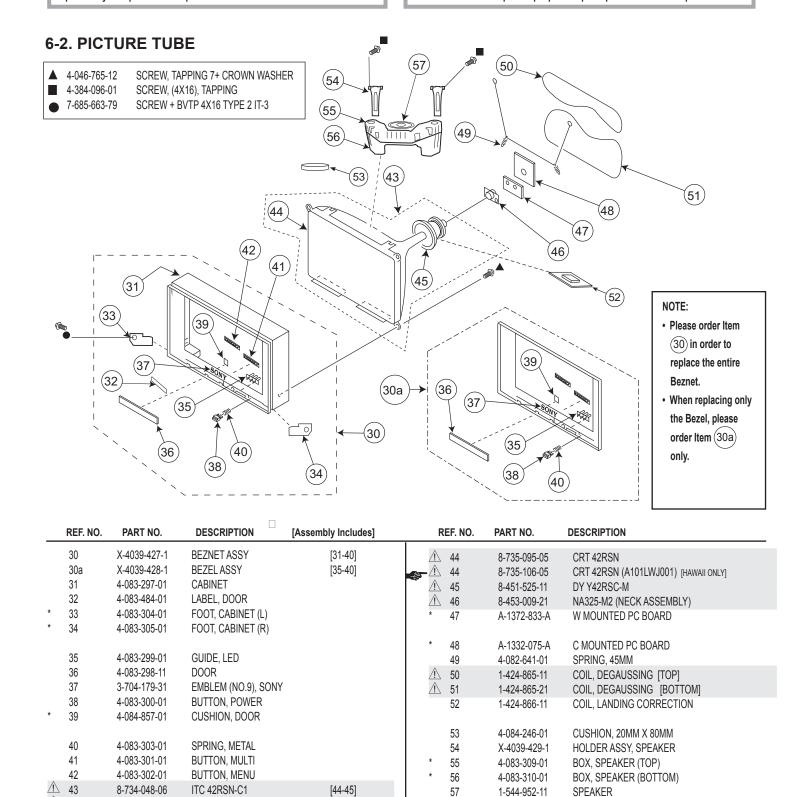
			Ų						
	REF. NO.	PART NO.	DESCRIPTION	[Assembly Includes]	F	REF. NO.	PART NO.	DESCRIPTION	
*	1	A-1377-021-A	HA MOUNTED PC BO	ARD		15	4-077-820-01	LABEL, TERMINAL	
*	2	A-1372-904-A	HB (COM) MOUNTED	PC BOARD	*	16	A-1373-817-A	U (COM) MOUNTED PC BOARD	
*	3	A-1348-122-A	D COMPLETE PC BOA	ARD		17	4-083-306-01	COVER, REAR	
		The high-voltage	leads associated with the	FBT on this board are not	<u>^</u>	18	1-453-350-21	FBT ASSY NX-6000//J1C4	[19-20]
		included and mus	st be ordered separately (S	See 19-20).		18	1-453-390-11	FBT ASSY NX-6000//M3G4 [HAWAII ONLY]	[19-20]
			. , ,	,	<u> </u>	19	1-900-805-19	FOCUS LEAD	
*	4	A-1299-560-A	A COMPLETE PC BOA	.RD					
*	5	4-075-828-01	BRACKET, MAIN		<u>^</u>	20	1-251-715-32	HV CAP ASSY	
	6	8-598-501-30	TUNER, FSS BTF-FA4	02		20	1-417-242-41	HV CAP ASSY [HAWAII ONLY]	
*	7	1-555-400-00	CABLE, PIN			21	1-544-953-11	SPEAKER (LEFT)	
	8	8-598-542-20	TUNER, FSS BTF-WA	112		22	1-544-953-21	SPEAKER (RIGHT)	
					*	23	A-1391-048-A	S MOUNTED PC BOARD	
*	9	1-557-009-31	CABLE, P-P			24	1-500-386-11	FILTER, CLAMP (FERRITE CORE)	
Ŵ	10	1-771-787-11	SWITCH, RF ANTENN	A	*	25	4-083-314-01	BRACKET, H	
<u>^</u>	11	1-790-316-21	CORD, AC POWER(W	ITH CONNECTOR)					
*	12	A-1136-200-A	B COMPLETE PC BOA	ARD .		26	4-084-918-01	RING, WISILL	
*	13	A-1136-117-A	BC COMPLETE PC BC)ARD	*	27	A-1333-142-A	DH MOUNTED PC BOARD	
*	14	4-075-829-01	BRACKET, U		*	28	4-084-013-01	BRACKET, DH	
		The label associa	ated with the U Bracket is r	not included and must be		29	4-083-308-01	FOOT, RC	
		ordered separate	ly (See 15).						
		•	•						
					1				

NOTE: The components identified by shading and ${\textstyle \bigwedge}$ mark are critical for safety. Replace only with part number specified.

8-734-063-06

ITC 42RSN-C1M [HAWAII ONLY]

NOTE: Les composants identifies par un trame et une marque 🛆 sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.



[44-45]



SERVICE MANUAL

DX-1A CHASSIS

MODEL NAME	REMOTE COMMANDER	<u>DESTINATION</u>	<u>CHASSIS NO.</u>
KV-40XBR700	RM-Y184	US	SCC-S47G-A
KV-40XBR700	RM-Y184	CND	SCC-S48E-A
KV-40XBR700H	RM-Y184	HAWAII	SCC-S54D-A

SUPPLEMENT - 2

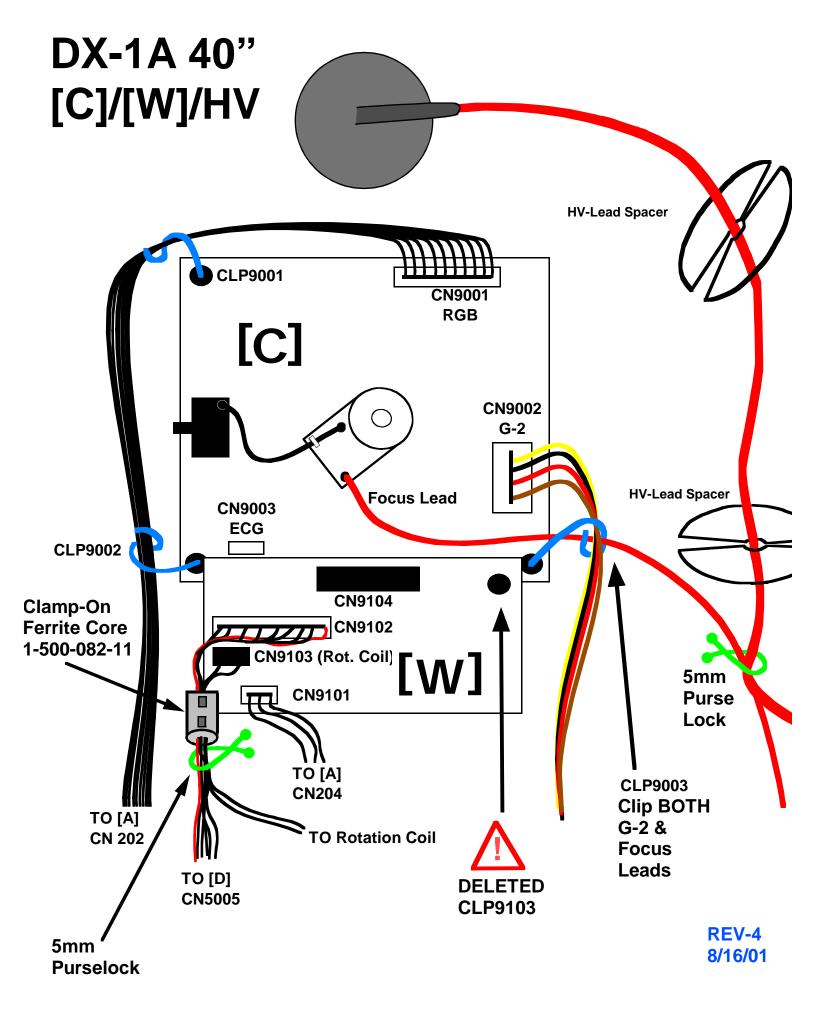
SUBJECT: ADDED CABLE ROUTINGS FOR REFERENCE

Correct the service manual as shown. File this Correction with the service manual.

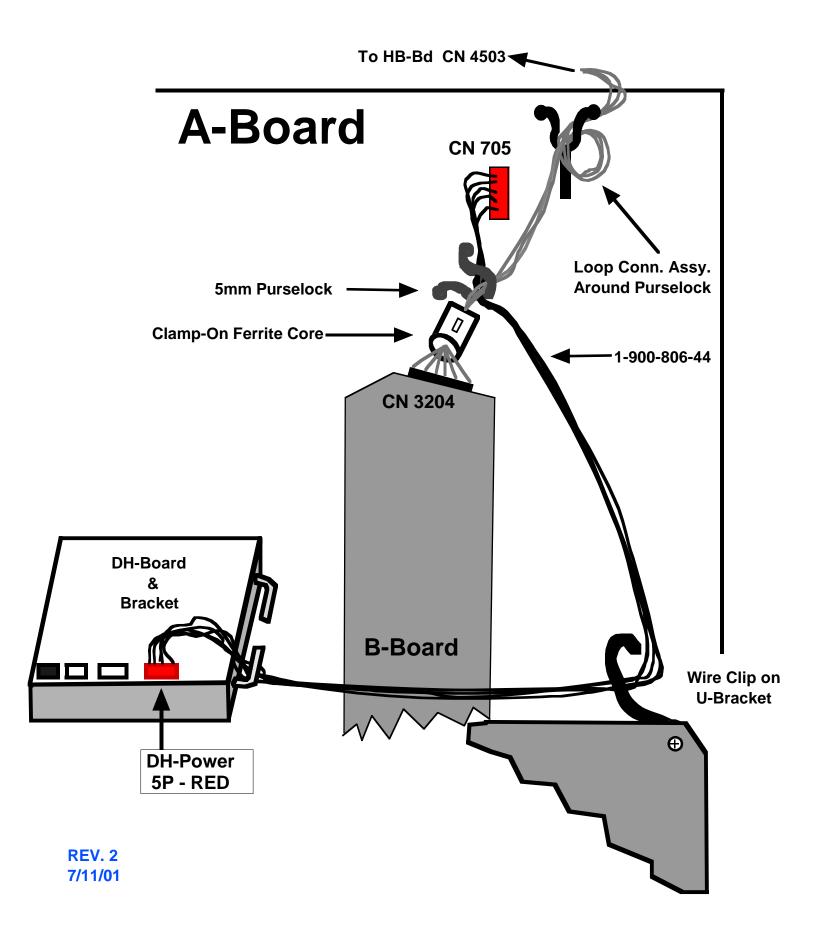


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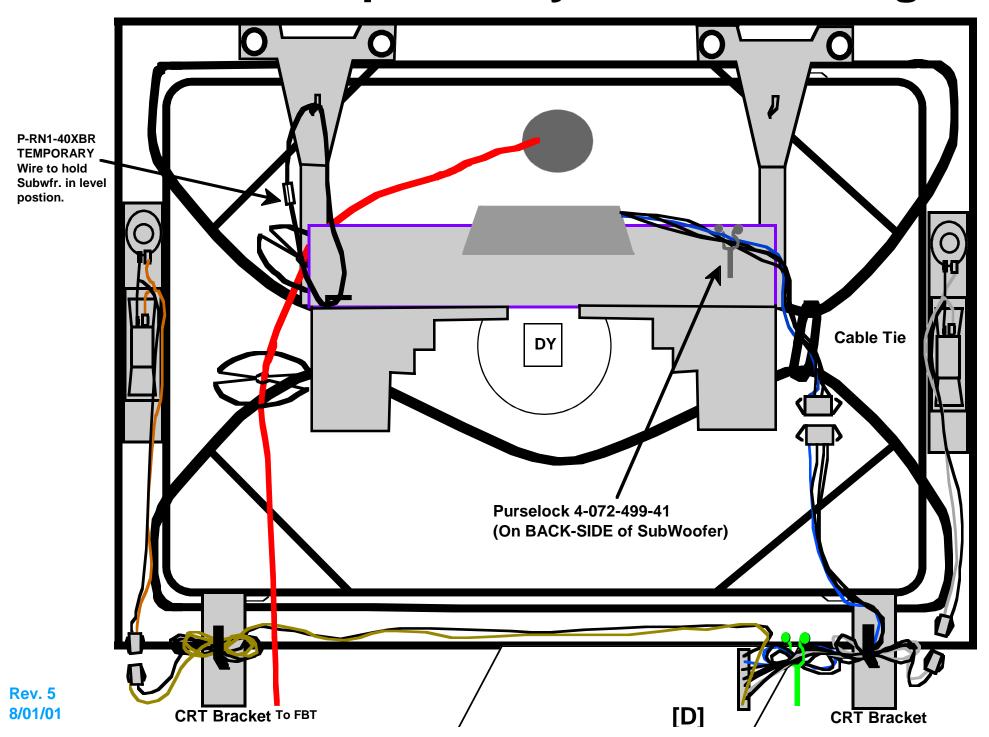
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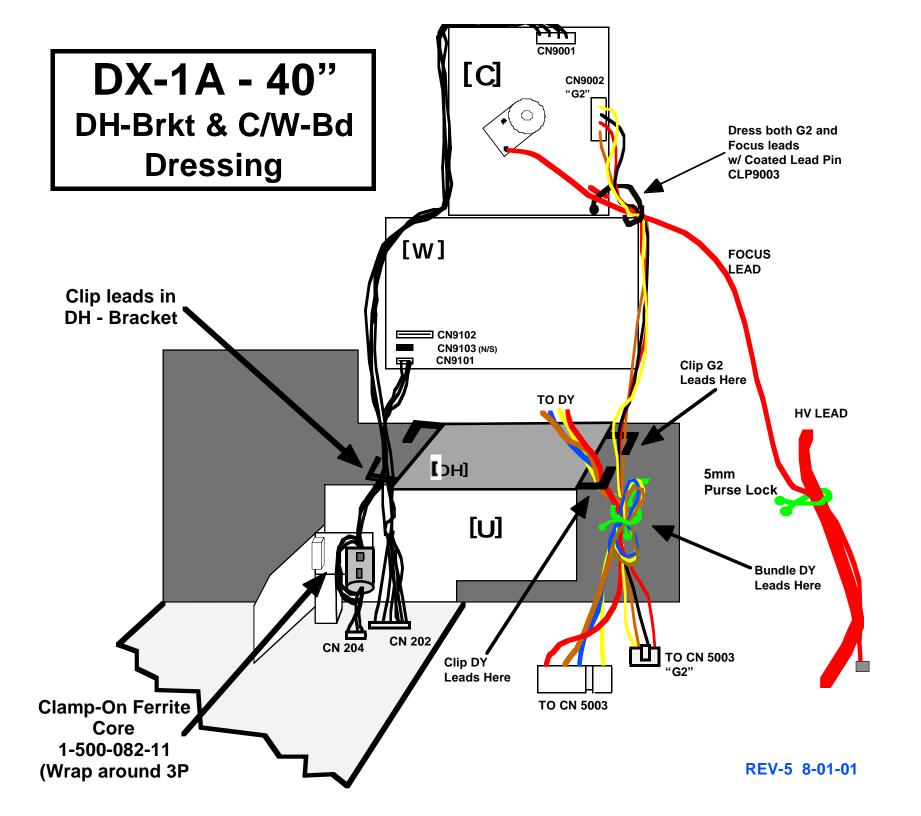


DX-1A 40" DH-Power Dressing

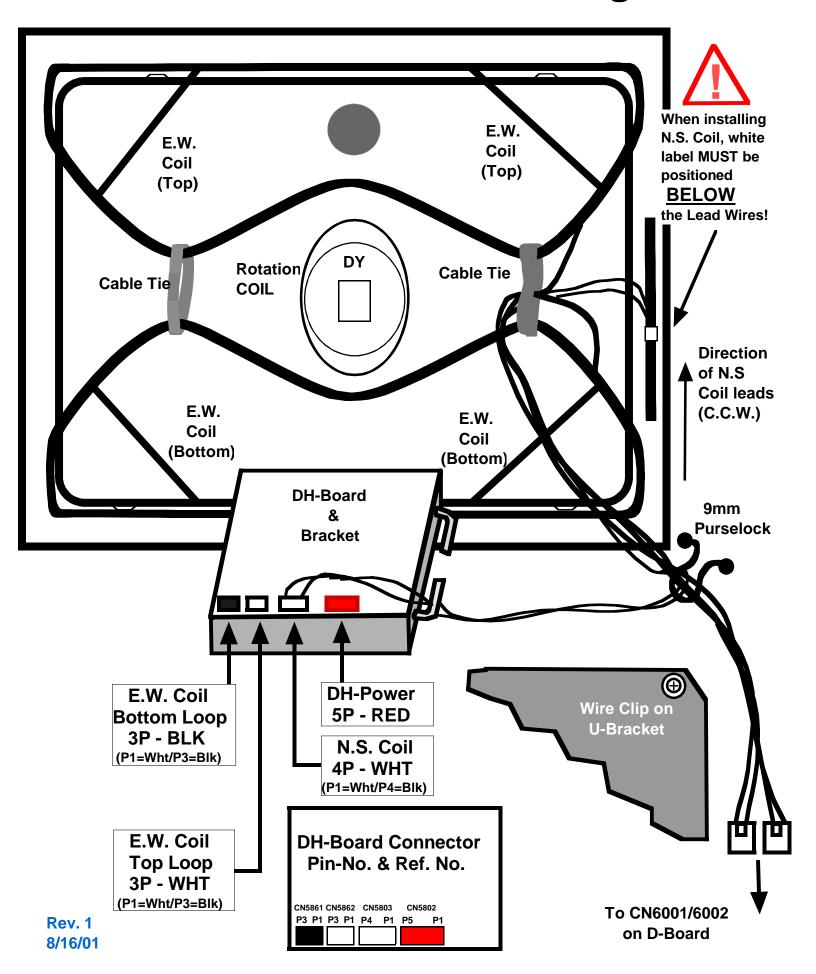


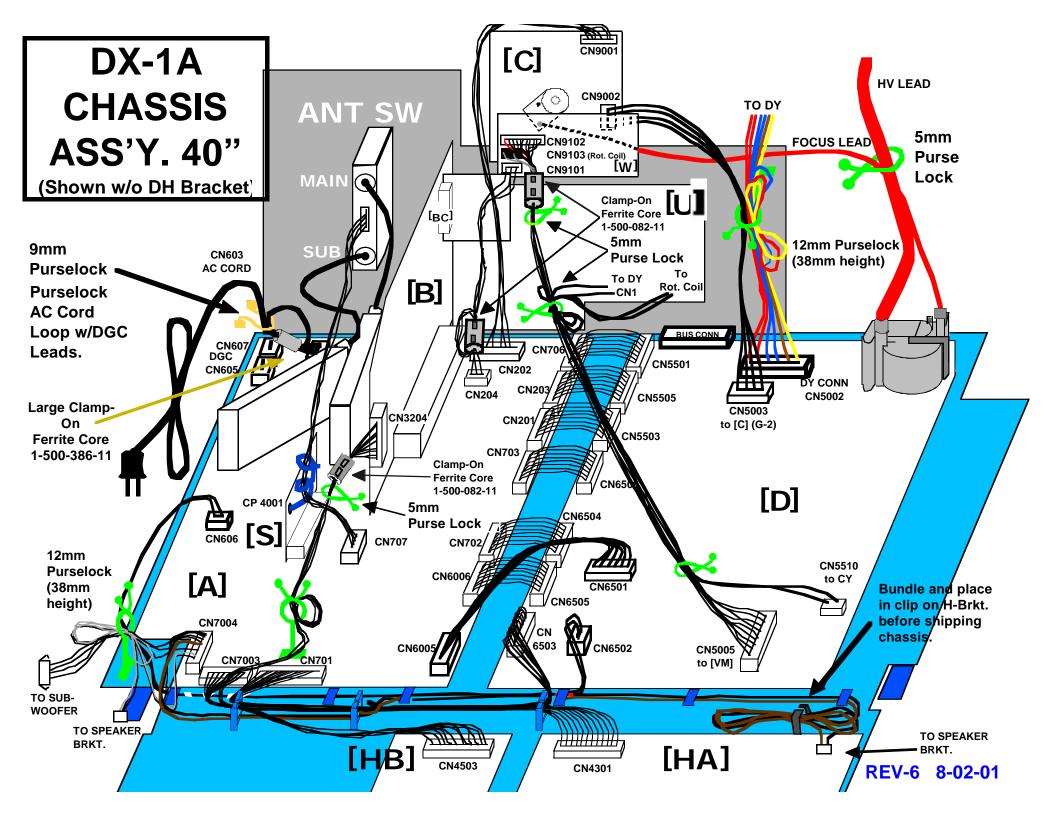
DX-1A 40" Spkr. Assy. Wire Dressing



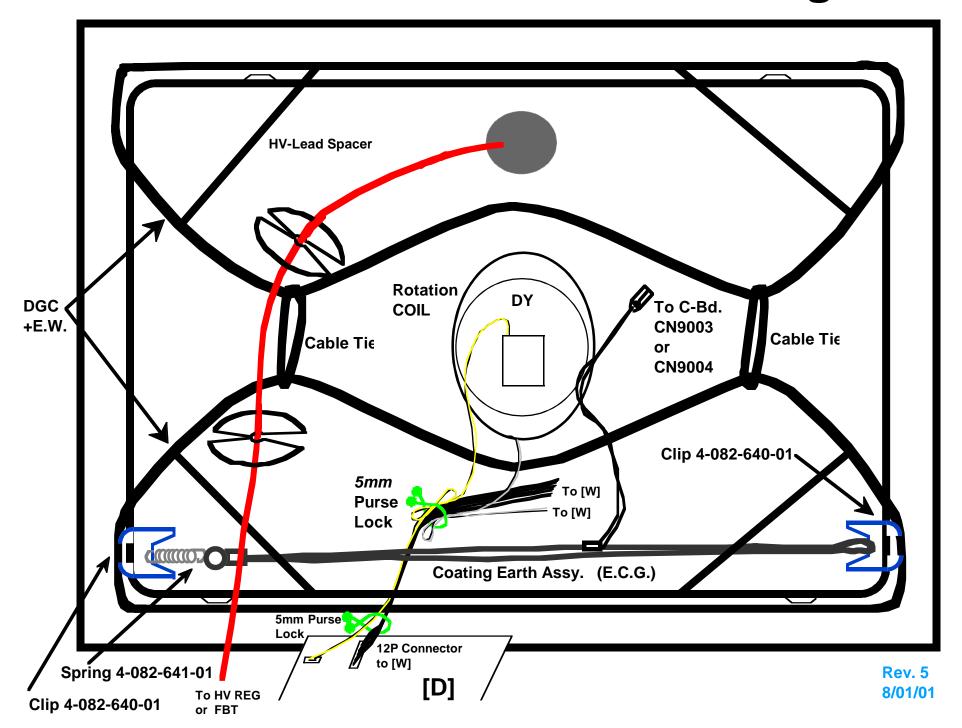


DX-1A 40" DGC/N.S. Dressing





DX-1A 40" CRT Wire Dressing



DX-1A 40" DGC/E.W. Dressing

